

## (Hetero)cyclyl carboxanilides for controlling harmful fungi

The present invention relates to (hetero)cyclic carboxanilides having an oxime ether function, and to their use for controlling harmful fungi.

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WO 02/08195 describes fungicidally active 1,3-dimethyl-5-fluoropyrazole-4-carboxanilides having, in the 2-position of the phenyl ring, a phenyl group having an oxime ether group. WO 02/08197 discloses hetarylaniides of a similar structure.

WO 98/03500 describes carbanilides which may, inter alia, have an oxime aryl ether group on the phenyl ring. However, examples of these are not given.

However, in particular at low application rates, the (heteroaryl)carboxanilides described in these publications are not entirely satisfactory. It is an object of the present invention to provide novel (heterocyclyl)carboxanilide derivatives.

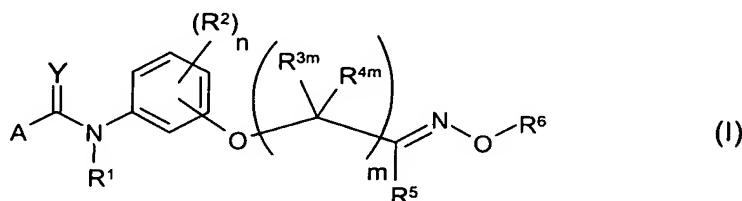
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Accordingly, it is an object of the present invention to provide fungicidally active compounds which overcome the disadvantages of the compounds known from the prior art and, in particular, have improved activity at low application rates. Moreover, these compounds should be tolerated well by crop plants and, if possible, cause no or

20 only little damage to useful animals.

We have found that this object is achieved by the (heterocyclyl)carboxanilides of the formula I described below and their agriculturally acceptable salts,

25 Accordingly, the present invention relates to (heterocyclyl)carboxanilides of the formula I,



30 in which variables are as defined below:

A is phenyl or an at least monounsaturated 5- or 6-membered heterocycle having 1, 2 or 3 heteroatoms selected from the group consisting of N, O, S, S(=O) and S(=O)<sub>2</sub> as ring members, where phenyl and the at least monounsaturated 5- or 6-membered heterocycle may be unsubstituted or may carry 1, 2 or 3 radicals R<sup>a</sup>, where

5      R<sup>a</sup> is halogen, nitro, CN, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyl,  
       C<sub>2</sub>-C<sub>4</sub>-alkynyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>-haloalkyl, C<sub>3</sub>-C<sub>6</sub>-halocycloalkyl,  
       C<sub>2</sub>-C<sub>4</sub>-haloalkenyl, C<sub>2</sub>-C<sub>4</sub>-haloalkynyl, C<sub>1</sub>-C<sub>4</sub>-haloalkoxy or phenyl, where  
       phenyl may be unsubstituted or carries one, two or three radicals R<sup>b</sup>  
       selected from the group consisting of halogen, nitro, CN, C<sub>1</sub>-C<sub>4</sub>-alkyl,  
       C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>2</sub>-C<sub>4</sub>-alkynyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy,  
       C<sub>1</sub>-C<sub>4</sub>-haloalkyl, C<sub>3</sub>-C<sub>6</sub>-halocycloalkyl, C<sub>2</sub>-C<sub>4</sub>-haloalkenyl,  
       C<sub>2</sub>-C<sub>4</sub>-haloalkynyl and C<sub>1</sub>-C<sub>4</sub>-haloalkoxy;

10     Y is oxygen or sulfur;

15     R<sup>1</sup> is H, OH, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>-haloalkyl,  
       C<sub>3</sub>-C<sub>6</sub>-halocycloalkyl or C<sub>1</sub>-C<sub>4</sub>-haloalkoxy;

20     R<sup>2</sup> is halogen, nitro, CN, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>2</sub>-C<sub>4</sub>-alkynyl,  
       C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>-haloalkyl, C<sub>3</sub>-C<sub>6</sub>-halocycloalkyl, C<sub>2</sub>-C<sub>4</sub>-haloalkenyl,  
       C<sub>2</sub>-C<sub>4</sub>-haloalkynyl or C<sub>1</sub>-C<sub>4</sub>-haloalkoxy;

25     R<sup>3m</sup>, R<sup>4m</sup> are each independently of one another halogen, hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl,  
       C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>2</sub>-C<sub>6</sub>-alkynyl, phenyl, phenyl-C<sub>1</sub>-C<sub>4</sub>-alkyl,  
       phenyl-C<sub>2</sub>-C<sub>4</sub>-alkenyl, phenyl-C<sub>2</sub>-C<sub>4</sub>-alkynyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>3</sub>-C<sub>6</sub>-halocycloalkyl,  
       C<sub>2</sub>-C<sub>6</sub>-haloalkenyl, C<sub>2</sub>-C<sub>6</sub>-haloalkynyl, phenyl-C<sub>1</sub>-C<sub>4</sub>-haloalkyl,  
       phenyl-C<sub>2</sub>-C<sub>4</sub>-haloalkenyl or phenyl-C<sub>2</sub>-C<sub>4</sub>-haloalkynyl, where phenyl or the phenyl  
       moiety of phenyl-C<sub>1</sub>-C<sub>4</sub>-alkyl, phenyl-C<sub>2</sub>-C<sub>4</sub>-alkenyl, phenyl-C<sub>2</sub>-C<sub>4</sub>-alkynyl,  
       phenyl-C<sub>1</sub>-C<sub>4</sub>-haloalkyl, phenyl-C<sub>2</sub>-C<sub>4</sub>-haloalkenyl and phenyl-C<sub>2</sub>-C<sub>4</sub>-haloalkynyl  
       may be unsubstituted or may carry one, two or three radicals R<sup>b</sup>; for m = 2 or 3 the  
       variables R<sup>32</sup>, R<sup>42</sup> and R<sup>33</sup>, R<sup>43</sup>, respectively, may also be C<sub>1</sub>-C<sub>6</sub>-alkoxy;

30     R<sup>5</sup> is hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>2</sub>-C<sub>6</sub>-alkynyl, phenyl,  
       phenyl-C<sub>1</sub>-C<sub>4</sub>-alkyl, phenyl-C<sub>2</sub>-C<sub>4</sub>-alkenyl, phenyl-C<sub>2</sub>-C<sub>4</sub>-alkynyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl,  
       C<sub>3</sub>-C<sub>6</sub>-halocycloalkyl, C<sub>2</sub>-C<sub>6</sub>-haloalkenyl, C<sub>2</sub>-C<sub>6</sub>-haloalkynyl,  
       phenyl-C<sub>1</sub>-C<sub>4</sub>-haloalkyl, phenyl-C<sub>2</sub>-C<sub>4</sub>-haloalkenyl or phenyl-C<sub>2</sub>-C<sub>4</sub>-haloalkynyl,  
       where phenyl or the phenyl moiety of phenyl-C<sub>1</sub>-C<sub>4</sub>-alkyl, phenyl-C<sub>2</sub>-C<sub>4</sub>-alkenyl,  
       phenyl-C<sub>2</sub>-C<sub>4</sub>-alkynyl, phenyl-C<sub>1</sub>-C<sub>4</sub>-haloalkyl, phenyl-C<sub>2</sub>-C<sub>4</sub>-haloalkenyl,  
       phenyl-C<sub>2</sub>-C<sub>4</sub>-haloalkynyl may be unsubstituted or may carry one, two or three  
       radicals R<sup>b</sup>;

35     R<sup>6</sup> is hydrogen, C<sub>1</sub>-C<sub>8</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>8</sub>-alkenyl, C<sub>2</sub>-C<sub>8</sub>-alkynyl,  
       C<sub>1</sub>-C<sub>8</sub>-haloalkyl, C<sub>3</sub>-C<sub>6</sub>-halocycloalkyl, C<sub>2</sub>-C<sub>8</sub>-haloalkenyl, C<sub>2</sub>-C<sub>8</sub>-haloalkynyl,

40     R<sup>7</sup> is hydrogen, C<sub>1</sub>-C<sub>8</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>8</sub>-alkenyl, C<sub>2</sub>-C<sub>8</sub>-alkynyl,  
       C<sub>1</sub>-C<sub>8</sub>-haloalkyl, C<sub>3</sub>-C<sub>6</sub>-halocycloalkyl, C<sub>2</sub>-C<sub>8</sub>-haloalkenyl, C<sub>2</sub>-C<sub>8</sub>-haloalkynyl,

phenyl, naphthyl, phenyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, naphthyl-C<sub>1</sub>-C<sub>6</sub>-alkyl, phenyl-C<sub>2</sub>-C<sub>6</sub>-alkenyl,  
phenyl-C<sub>2</sub>-C<sub>6</sub>-alkynyl, phenyl-C<sub>1</sub>-C<sub>6</sub>-haloalkyl, phenyl-C<sub>2</sub>-C<sub>6</sub>-haloalkenyl or  
phenyl-C<sub>2</sub>-C<sub>6</sub>-haloalkynyl, where phenyl and naphthyl in the 9 last-mentioned  
5 groups may be unsubstituted or may carry 1, 2 or 3 substituents selected from the  
group consisting of R<sup>b</sup> and R<sup>7</sup>, where R<sup>7</sup> is -(CR<sup>8</sup>)=NOR<sup>9</sup>, where

10 R<sup>8</sup> is hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>2</sub>-C<sub>6</sub>-alkynyl,  
C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>3</sub>-C<sub>6</sub>-halocycloalkyl, C<sub>2</sub>-C<sub>6</sub>-haloalkenyl, C<sub>2</sub>-C<sub>6</sub>-haloalkynyl,  
phenyl, benzyl; where phenyl and the phenyl group in benzyl may be  
unsubstituted or may carry one, two or three radicals R<sup>b</sup>; and

15 R<sup>9</sup> is C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>2</sub>-C<sub>6</sub>-alkynyl,  
C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>3</sub>-C<sub>6</sub>-halocycloalkyl, C<sub>2</sub>-C<sub>6</sub>-haloalkenyl, C<sub>2</sub>-C<sub>6</sub>-haloalkynyl,  
phenyl, phenyl-C<sub>1</sub>-C<sub>4</sub>-alkyl, phenyl-C<sub>1</sub>-C<sub>4</sub>-haloalkyl, phenyl-C<sub>2</sub>-C<sub>4</sub>-alkenyl,  
phenyl-C<sub>2</sub>-C<sub>4</sub>-haloalkenyl, phenyl-C<sub>2</sub>-C<sub>4</sub>-alkynyl, phenyl-C<sub>2</sub>-C<sub>4</sub>-haloalkynyl,  
where phenyl and the phenyl group in phenyl-C<sub>1</sub>-C<sub>4</sub>-alkyl,  
phenyl-C<sub>1</sub>-C<sub>4</sub>-haloalkyl, phenyl-C<sub>2</sub>-C<sub>4</sub>-alkenyl, phenyl-C<sub>2</sub>-C<sub>4</sub>-haloalkenyl,  
phenyl-C<sub>2</sub>-C<sub>4</sub>-alkynyl and phenyl-C<sub>2</sub>-C<sub>4</sub>-haloalkynyl may be unsubstituted or  
may carry one, two or three radicals R<sup>b</sup>;

20 n is 0, 1, 2, 3 or 4; and

m is 1, 2 or 3;

25 and their agriculturally useful salts.

Moreover, the present invention relates to the use of the (hetero)cyclcarboxanilides of  
the formula I and their agriculturally useful salts as fungicides, and to crop protection  
compositions comprising these compounds.

30 Furthermore, the present invention relates to a method for controlling phytopathogenic  
fungi (harmful fungi), which method comprises treating the harmful fungi, their habitat  
or the plants, areas, materials or spaces to be kept free from them with a fungicidally  
effective amount of a (hetero)cyclcarboxanilide of the formula I and/or an  
35 agriculturally useful salt of I.

40 Depending on the substitution pattern, the compounds of the formula I may contain one  
or more centers of chirality, in which case they are present as mixtures of enantiomers  
or diastereomers. The invention provides both the pure enantiomers or diastereomers  
and their mixtures. Suitable compounds of the formula I also comprise all possible

stereoisomers (cis/trans isomers) and mixtures thereof.

Suitable agriculturally useful salts are especially the salts of those cations or the acid addition salts of those acids whose cations or anions, respectively, have no adverse

5 effect on the compounds I. Thus, suitable cations are in particular the ions of the alkali metals, preferably sodium and potassium, of the alkaline earth metals, preferably calcium, magnesium and barium, and of the transition metals, preferably manganese, copper, zinc and iron, and also the ammonium ion which, if desired, may carry one to four C<sub>1</sub>-C<sub>4</sub>-alkyl substituents and/or one phenyl or benzyl substituent, preferably  
 10 diisopropylammonium, tetramethylammonium, tetrabutylammonium, trimethylbenzyl-ammonium, furthermore phosphonium ions, sulfonium ions, preferably tri(C<sub>1</sub>-C<sub>4</sub>-alkyl)sulfonium, and sulfoxonium ions, preferably tri(C<sub>1</sub>-C<sub>4</sub>-alkyl)sulfoxonium.

Anions of useful acid addition salts are primarily chloride, bromide, fluoride,

15 hydrogensulfate, sulfate, dihydrogenphosphate, hydrogenphosphate, phosphate, nitrate, hydrogencarbonate, carbonate, hexafluorosilicate, hexafluorophosphate, benzoate, and the anions of C<sub>1</sub>-C<sub>4</sub>-alkanoic acids, preferably formate, acetate, propionate and butyrate. They can be formed by reacting I with an acid of the corresponding anion, preferably hydrochloric acid, hydrobromic acid, sulfuric acid,  
 20 phosphoric acid, nitric acid.

In the definitions of the variables given in the formulae above, collective terms are used which are generally representative for the substituents in question. The term C<sub>n</sub>-C<sub>m</sub> denotes in each case the possible number of carbon atoms in the respective

25 substituent or substituent moiety. All hydrocarbon chains, i.e. all alkyl, haloalkyl, phenylalkyl, alkenyl, haloalkenyl, phenylalkenyl, alkynyl, haloalkynyl and phenylalkynyl moieties can be straight-chain or branched. Halogenated substituents preferably carry one to five identical or different halogen atoms. The term halogen denotes in each case fluorine, chlorine, bromine or iodine.

30 Examples of other meanings are:

- C<sub>1</sub>-C<sub>4</sub>-alkyl: CH<sub>3</sub>, C<sub>2</sub>H<sub>5</sub>, CH<sub>2</sub>-C<sub>2</sub>H<sub>5</sub>, CH(CH<sub>3</sub>)<sub>2</sub>, n-butyl, CH(CH<sub>3</sub>)-C<sub>2</sub>H<sub>5</sub>, CH<sub>2</sub>-CH(CH<sub>3</sub>)<sub>2</sub> or C(CH<sub>3</sub>)<sub>3</sub>;

35

- C<sub>1</sub>-C<sub>4</sub>-haloalkyl: a C<sub>1</sub>-C<sub>4</sub>-alkyl radical as mentioned above which is partially or fully substituted by fluorine, chlorine, bromine and/or iodine, i.e., for example, CH<sub>2</sub>F, CHF<sub>2</sub>, CF<sub>3</sub>, CH<sub>2</sub>Cl, CH(Cl)<sub>2</sub>, C(Cl)<sub>3</sub>, chlorofluoromethyl, dichlorofluoromethyl, chlorodifluoromethyl, 2-fluoroethyl, 2-chloroethyl,  
 40 2-bromoethyl, 2-iodoethyl, 2,2-difluoroethyl, 2,2,2-trifluoroethyl,

2-chloro-2-fluoroethyl, 2-chloro-2,2-difluoroethyl, 2,2-dichloro-2-fluoroethyl,  
 2,2,2-trichloroethyl, C<sub>2</sub>F<sub>5</sub>, 2-fluoropropyl, 3-fluoropropyl, 2,2-difluoropropyl,  
 2,3-difluoropropyl, 2-chloropropyl, 3-chloropropyl, 2,3-dichloropropyl,  
 2-bromopropyl, 3-bromopropyl, 3,3,3-trifluoropropyl, 3,3,3-trichloropropyl,  
 5 CH<sub>2</sub>-C<sub>2</sub>F<sub>5</sub>, CF<sub>2</sub>-C<sub>2</sub>F<sub>5</sub>, 1-(fluoromethyl)-2-fluoroethyl, 1-(chloromethyl)-  
 2-chloroethyl, 1-(bromomethyl)-2-bromoethyl, 4-fluorobutyl, 4-chlorobutyl,  
 4-bromobutyl or nonafluorobutyl;

10 - C<sub>1</sub>-C<sub>8</sub>-alkyl: a C<sub>1</sub>-C<sub>4</sub>-alkyl radical as mentioned above, or, for example, n-pentyl,  
 1-methylbutyl, 2-methylbutyl, 3-methylbutyl, 2,2-dimethylpropyl, 1-ethylpropyl,  
 n-hexyl, 1,1-dimethylpropyl, 1,2-dimethylpropyl, 1-methylpentyl, 2-methylpentyl,  
 3-methylpentyl, 4-methylpentyl, 1,1-dimethylbutyl, 1,2-dimethylbutyl,  
 1,3-dimethylbutyl, 2,2-dimethylbutyl, 2,3-dimethylbutyl, 3,3-dimethylbutyl,  
 15 1-ethylbutyl, 2-ethylbutyl, 1,1,2-trimethylpropyl, 1,2,2-trimethylpropyl,  
 1-ethyl-1-methylpropyl or 1-ethyl-2-methylpropyl, preferably CH<sub>3</sub>, C<sub>2</sub>H<sub>5</sub>,  
 CH<sub>2</sub>-C<sub>2</sub>H<sub>5</sub>, CH(CH<sub>3</sub>)<sub>2</sub>, n-butyl, C(CH<sub>3</sub>)<sub>3</sub>, n-pentyl, n-hexyl, n-heptyl or n-octyl;

20 - C<sub>1</sub>-C<sub>8</sub>-haloalkyl: a C<sub>1</sub>-C<sub>8</sub>-alkyl radical as mentioned above which is partially or  
 20 fully substituted by fluorine, chlorine, bromine and/or iodine, i.e., for example, one  
 of the radicals mentioned under C<sub>1</sub>-C<sub>4</sub>-haloalkyl or 5-fluoro-1-pentyl, 5-chloro-  
 1-pentyl, 5-bromo-1-pentyl, 5-iodo-1-pentyl, 5,5,5-trichloro-1-pentyl, undeca-  
 fluoropentyl, 6-fluoro-1-hexyl, 6-chloro-1-hexyl, 6-bromo-1-hexyl, 6-iodo-1-hexyl,  
 6,6,6-trichloro-1-hexyl or dodecafluorohexyl;

25 - C<sub>2</sub>-C<sub>4</sub>-alkenyl: unsaturated straight-chain or branched hydrocarbon radicals  
 having 2 to 4 carbon atoms and a double bond in any position, for example  
 ethenyl, 1-propenyl, 2-propenyl, 1-methylethenyl, 1-buten-1-yl, 1-buten-2-yl,  
 1-buten-3-yl, 2-buten-1-yl, 1-methylprop-1-en-1-yl, 2-methylprop-1-en-1-yl,  
 1-methylprop-2-en-1-yl, 2-methylprop-2-en-1-yl;

30 - C<sub>2</sub>-C<sub>6</sub>-alkenyl: C<sub>2</sub>-C<sub>4</sub>-alkenyl as mentioned above and also, for example:  
 n-penten-1-yl, n-penten-2-yl, n-penten-3-yl, n-penten-4-yl, 1-methylbut-1-en-1-yl,  
 2-methylbut-1-en-1-yl, 3-methylbut-1-en-1-yl, 1-methylbut-2-en-1-yl,  
 2-methylbut-2-en-1-yl, 3-methylbut-2-en-1-yl, 1-methylbut-3-en-1-yl,  
 35 2-methylbut-3-en-1-yl, 3-methylbut-3-en-1-yl, 1,1-dimethylprop-2-en-1-yl,  
 1,2-dimethylprop-1-en-1-yl, 1,2-dimethylprop-2-en-1-yl, 1-ethylprop-1-en-2-yl,  
 1-ethylprop-2-en-1-yl, n-hex-1-en-1-yl, n-hex-2-en-1-yl, n-hex-3-en-1-yl,  
 n-hex-4-en-1-yl, n-hex-5-en-1-yl, 1-methylpent-1-en-1-yl, 2-methylpent-1-en-1-yl,  
 3-methylpent-1-en-1-yl, 4-methylpent-1-en-1-yl, 1-methylpent-2-en-1-yl,  
 40 2-methylpent-2-en-1-yl, 3-methylpent-2-en-1-yl, 4-methylpent-2-en-1-yl,

1-methylpent-3-en-1-yl, 2-methylpent-3-en-1-yl, 3-methylpent-3-en-1-yl,  
 4-methylpent-3-en-1-yl, 1-methylpent-4-en-1-yl, 2-methylpent-4-en-1-yl,  
 3-methylpent-4-en-1-yl, 4-methylpent-4-en-1-yl, 1,1-dimethylbut-2-en-1-yl,  
 1,1-dimethylbut-3-en-1-yl, 1,2-dimethylbut-1-en-1-yl, 1,2-dimethylbut-2-en-1-yl,  
 5 1,2-dimethylbut-3-en-1-yl, 1,3-dimethylbut-1-en-1-yl, 1,3-dimethylbut-2-en-1-yl,  
 1,3-dimethylbut-3-en-1-yl, 2,2-dimethylbut-3-en-1-yl, 2,3-dimethylbut-1-en-1-yl,  
 2,3-dimethylbut-2-en-1-yl, 2,3-dimethylbut-3-en-1-yl, 3,3-dimethylbut-1-en-1-yl,  
 3,3-dimethylbut-2-en-1-yl, 1-ethylbut-1-en-1-yl, 1-ethylbut-2-en-1-yl, 1-ethylbut-  
 10 3-en-1-yl, 2-ethylbut-1-en-1-yl, 2-ethylbut-2-en-1-yl, 2-ethylbut-3-en-1-yl,  
 1,1,2-trimethylprop-2-en-1-yl, 1-ethyl-1-methylprop-2-en-1-yl,  
 1-ethyl-2-methylprop-1-en-1-yl or 1-ethyl-2-methylprop-2-en-1-yl;

- C<sub>2</sub>-C<sub>4</sub>-haloalkenyl: unsaturated straight-chain or branched hydrocarbon radicals having 2 to 4 carbon atoms and a double bond in any position (as mentioned above), where some or all of the hydrogen atoms in these groups are replaced by halogen atoms as mentioned above, in particular by fluorine, chlorine and bromine, i.e., for example, 2-chloroallyl, 3-chloroallyl, 2,3-dichloroallyl, 3,3-dichloroallyl, 2,3,3-trichloroallyl, 2,3-dichlorobut-2-enyl, 2-bromoallyl, 3-bromoallyl, 2,3-dibromoallyl, 3,3-dibromoallyl, 2,3,3-tribromoallyl or 2,3-dibromobut-2-enyl;

- C<sub>2</sub>-C<sub>6</sub>-haloalkenyl: C<sub>2</sub>-C<sub>6</sub>-alkenyl as mentioned above which is partially or fully substituted by fluorine, chlorine, bromine and/or iodine, for example the radicals mentioned under C<sub>2</sub>-C<sub>4</sub>-haloalkenyl;

15 - C<sub>2</sub>-C<sub>4</sub>-alkynyl: straight-chain or branched hydrocarbon groups having 2 to 4 carbon atoms and a triple bond in any position, for example ethynyl, 1-propynyl, 2-propynyl (=propargyl), 1-butynyl, 2-butynyl, 3-butynyl and 1-methyl-2-propynyl;

20 - C<sub>2</sub>-C<sub>6</sub>-alkynyl: straight-chain or branched hydrocarbon groups having 2 to 6 carbon atoms and a triple bond in any position, for example ethynyl, prop-1-yn-1-yl, prop-2-yn-1-yl, n-but-1-yn-1-yl, n-but-1-yn-3-yl, n-but-1-yn-4-yl, n-but-2-yn-1-yl, n-pent-1-yn-1-yl, n-pent-1-yn-3-yl, n-pent-1-yn-4-yl, n-pent-1-yn-5-yl, n-pent-2-yn-1-yl, n-pent-2-yn-4-yl, n-pent-2-yn-5-yl,

25 - C<sub>2</sub>-C<sub>4</sub>-alkynyl: straight-chain or branched hydrocarbon groups having 2 to 4 carbon atoms and a triple bond in any position, for example ethynyl, 1-propynyl, 2-propynyl (=propargyl), 1-butynyl, 2-butynyl, 3-butynyl and 1-methyl-2-propynyl;

30 - C<sub>2</sub>-C<sub>6</sub>-alkynyl: straight-chain or branched hydrocarbon groups having 2 to 6 carbon atoms and a triple bond in any position, for example ethynyl, prop-1-yn-1-yl, prop-2-yn-1-yl, n-but-1-yn-1-yl, n-but-1-yn-3-yl, n-but-1-yn-4-yl, n-but-2-yn-1-yl, n-pent-1-yn-1-yl, n-pent-1-yn-3-yl, n-pent-1-yn-4-yl, n-pent-1-yn-5-yl, n-pent-2-yn-1-yl, n-pent-2-yn-4-yl, n-pent-2-yn-5-yl,

35 - C<sub>2</sub>-C<sub>6</sub>-alkynyl: straight-chain or branched hydrocarbon groups having 2 to 6 carbon atoms and a triple bond in any position, for example ethynyl, prop-1-yn-1-yl, prop-2-yn-1-yl, n-but-1-yn-1-yl, n-but-1-yn-3-yl, n-but-1-yn-4-yl, n-but-2-yn-1-yl, n-pent-1-yn-1-yl, n-pent-1-yn-3-yl, n-pent-1-yn-4-yl, n-pent-1-yn-5-yl, n-pent-2-yn-1-yl, n-pent-2-yn-4-yl, n-pent-2-yn-5-yl, n-hex-1-yn-1-yl, n-hex-1-yn-3-yl, n-hex-1-yn-4-yl, n-hex-1-yn-5-yl, n-hex-1-yn-6-yl, n-hex-2-yn-1-yl, n-hex-2-yn-4-yl, n-hex-2-yn-5-yl, n-hex-2-yn-6-yl, n-hex-3-yn-1-yl, n-hex-3-yn-2-yl, 3-methylpent-1-yn-1-yl, 3-methylpent-1-yn-3-yl, 3-methylpent-1-yn-4-yl, 3-methylpent-1-yn-5-yl, 4-methylpent-1-yn-1-yl, 4-methylpent-2-yn-4-yl and 4-methylpent-2-yn-5-yl;

- C<sub>2</sub>-C<sub>4</sub>-haloalkynyl: unsaturated straight-chain or branched hydrocarbon radicals having 2 to 4 carbon atoms and a triple bond in any position (as mentioned above), where some or all of the hydrogen atoms in these groups may be replaced by halogen atoms as mentioned above, in particular by fluorine, chlorine and bromine, i.e., for example, 1,1-difluoroprop-2-yn-1-yl, 4-fluorobut-2-yn-1-yl, 4-chlorobut-2-yn-1-yl or 1,1-difluorobut-2-yn-1-yl,

5

- C<sub>2</sub>-C<sub>6</sub>-haloalkynyl: C<sub>2</sub>-C<sub>6</sub>-alkynyl as mentioned above which is partially or fully substituted by fluorine, chlorine, bromine and/or iodine, for example the radicals mentioned under C<sub>2</sub>-C<sub>4</sub>-haloalkynyl;

10

- C<sub>1</sub>-C<sub>4</sub>-alkoxy: OCH<sub>3</sub>, OC<sub>2</sub>H<sub>5</sub>, OCH<sub>2</sub>-C<sub>2</sub>H<sub>5</sub>, OCH(CH<sub>3</sub>)<sub>2</sub>, n-butoxy, OCH(CH<sub>3</sub>)-C<sub>2</sub>H<sub>5</sub>, OCH<sub>2</sub>-CH(CH<sub>3</sub>)<sub>2</sub> or OC(CH<sub>3</sub>)<sub>3</sub>;

15

- C<sub>1</sub>-C<sub>4</sub>-haloalkoxy: a C<sub>1</sub>-C<sub>4</sub>-alkoxy radical as mentioned above which is partially or fully substituted by fluorine, chlorine, bromine and/or iodine, i.e., for example, OCH<sub>2</sub>F, OCHF<sub>2</sub>, OCF<sub>3</sub>, OCH<sub>2</sub>Cl, OCH(Cl)<sub>2</sub>, OC(Cl)<sub>3</sub>, chlorofluoromethoxy, dichlorofluoromethoxy, chlorodifluoromethoxy, 2-fluoroethoxy, 2-chloroethoxy, 2-bromoethoxy, 2-iodoethoxy, 2,2-difluoroethoxy, 2,2,2-trifluoroethoxy, 2-chloro-2-fluoroethoxy, 2-chloro-2,2-difluoroethoxy, 2,2-dichloro-2-fluoroethoxy, 2,2,2-trichloroethoxy, OC<sub>2</sub>F<sub>5</sub>, 2-fluoropropoxy, 3-fluoropropoxy, 2,2-difluoropropoxy, 2,3-difluoropropoxy, 2-chloropropoxy, 3-chloropropoxy, 2,3-dichloropropoxy, 2-bromopropoxy, 3-bromopropoxy, 3,3,3-trifluoropropoxy, 3,3,3-trichloropropoxy, OCH<sub>2</sub>-C<sub>2</sub>F<sub>5</sub>, OCF<sub>2</sub>-C<sub>2</sub>F<sub>5</sub>, 1-(CH<sub>2</sub>F)-2-fluoroethoxy, 1-(CH<sub>2</sub>Cl)-2-chloroethoxy, 1-(CH<sub>2</sub>Br)-2-bromoethoxy, 4-fluorobutoxy, 4-chlorobutoxy, 4-bromobutoxy or nonafluorobutoxy, preferably OCHF<sub>2</sub>, OCF<sub>3</sub>, dichlorofluoromethoxy, chlorodifluoromethoxy or 2,2,2-trifluoroethoxy;

20

  - C<sub>3</sub>-C<sub>6</sub>-cycloalkyl: cyclopropyl, cyclobutyl, cyclopentyl or cyclohexyl;

25

  - C<sub>3</sub>-C<sub>6</sub>-cycloalkyl which is unsubstituted or mono- or polysubstituted by halogen: a C<sub>3</sub>-C<sub>6</sub>-cycloalkyl radical as mentioned above which is unsubstituted or partially or fully substituted by fluorine, chlorine, bromine and/or iodine, i.e., for example, 1-chlorocyclopropyl, 1-fluorocyclopropyl, 2-chlorocyclopropyl, 2-fluorocyclopropyl, 4-chlorocyclohexyl, 4-bromocyclohexyl;

30

  - phenyl-C<sub>1</sub>-C<sub>4</sub>-alkyl: C<sub>1</sub>-C<sub>4</sub>-alkyl which is substituted by phenyl, for example benzyl, 1- or 2-phenylethyl, 1-, 2- or 3-phenylpropyl, where the phenyl moiety may be unsubstituted or may carry 1, 2 or 3 radicals R<sup>b</sup>, where R<sup>b</sup> is selected

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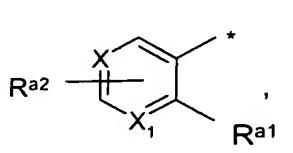
from the group consisting of halogen, nitro, CN, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>2</sub>-C<sub>4</sub>-alkynyl and C<sub>1</sub>-C<sub>4</sub>-alkoxy, where the 5 last-mentioned groups may be substituted by halogen;

- 5 - phenyl-C<sub>1</sub>-C<sub>4</sub>-haloalkyl: C<sub>1</sub>-C<sub>4</sub>-haloalkyl which is substituted by phenyl, where the phenyl moiety may be unsubstituted or may carry 1, 2 or 3 radicals R<sup>b</sup>, where R<sup>b</sup> is selected from the group consisting of halogen, nitro, CN, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>2</sub>-C<sub>4</sub>-alkynyl and C<sub>1</sub>-C<sub>4</sub>-alkoxy, where the 5 last-mentioned groups may be substituted by halogen;
- 10 - phenyl-C<sub>2</sub>-C<sub>4</sub>-alkenyl: C<sub>2</sub>-C<sub>4</sub>-alkenyl which is substituted by phenyl, for example 1- or 2-phenylethenyl, 1-phenylprop-2-en-1-yl, 3-phenyl-1-propen-1-yl, 3-phenyl-2-propen-1-yl, 4-phenyl-1-buten-1-yl or 4-phenyl-2-buten-1-yl; where the phenyl moiety may be unsubstituted or may carry 1, 2 or 3 radicals R<sup>b</sup>, where R<sup>b</sup> is selected from the group consisting of halogen, nitro, CN, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>2</sub>-C<sub>4</sub>-alkynyl and C<sub>1</sub>-C<sub>4</sub>-alkoxy, where the 5 last-mentioned groups may be substituted by halogen;
- 15 - phenyl-C<sub>2</sub>-C<sub>4</sub>-haloalkenyl: C<sub>2</sub>-C<sub>4</sub>-haloalkenyl which is substituted by phenyl, where the phenyl moiety may be unsubstituted or may carry 1, 2 or 3 radicals R<sup>b</sup>, where R<sup>b</sup> is selected from the group consisting of halogen, nitro, CN, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>2</sub>-C<sub>4</sub>-alkynyl and C<sub>1</sub>-C<sub>4</sub>-alkoxy, where the 5 last-mentioned groups may be substituted by halogen;
- 20 - phenyl-C<sub>2</sub>-C<sub>4</sub>-alkynyl: C<sub>2</sub>-C<sub>4</sub>-alkynyl which is substituted by phenyl, where the phenyl moiety may be unsubstituted or may carry 1, 2 or 3 radicals R<sup>b</sup>, where R<sup>b</sup> is selected from the group consisting of halogen, nitro, CN, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>2</sub>-C<sub>4</sub>-alkynyl and C<sub>1</sub>-C<sub>4</sub>-alkoxy, where the 5 last-mentioned groups may be substituted by halogen;
- 25 - phenyl-C<sub>2</sub>-C<sub>4</sub>-alkynyl: C<sub>2</sub>-C<sub>4</sub>-alkynyl, which is substituted by phenyl, for example 1-phenyl-2-propyn-1-yl, 3-phenyl-1-propyn-1-yl, 3-phenyl-2-propyn-1-yl, 4-phenyl-1-butyn-1-yl or 4-phenyl-2-butyn-1-yl; where the phenyl moiety of phenyl-C<sub>2</sub>-C<sub>4</sub>-alkynyl may be unsubstituted or may carry 1, 2 or 3 radicals R<sup>b</sup>, where R<sup>b</sup> is selected from the group consisting of halogen, nitro, CN, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>2</sub>-C<sub>4</sub>-alkynyl and C<sub>1</sub>-C<sub>4</sub>-alkoxy, where the 5 last-mentioned groups may be substituted by halogen;
- 30 - phenyl-C<sub>2</sub>-C<sub>4</sub>-haloalkynyl: C<sub>2</sub>-C<sub>4</sub>-haloalkynyl which is substituted by phenyl, where the phenyl moiety may be unsubstituted or may carry 1, 2 or 3 radicals R<sup>b</sup>, where R<sup>b</sup> is selected from the group consisting of halogen, nitro, CN, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>2</sub>-C<sub>4</sub>-alkynyl and C<sub>1</sub>-C<sub>4</sub>-alkoxy, where the 5 last-mentioned groups may be substituted by halogen;
- 35 - phenyl-C<sub>2</sub>-C<sub>4</sub>-haloalkynyl: C<sub>2</sub>-C<sub>4</sub>-haloalkynyl which is substituted by phenyl, where the phenyl moiety may be unsubstituted or may carry 1, 2 or 3 radicals R<sup>b</sup>, where R<sup>b</sup> is selected from the group consisting of halogen, nitro, CN, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>2</sub>-C<sub>4</sub>-alkynyl and C<sub>1</sub>-C<sub>4</sub>-alkoxy, where the 5 last-mentioned groups may be substituted by halogen;
- 40 - an at least monounsaturated heterocycle having 5 or 6 ring members: a monocyclic heterocycle which has one, two or three ring members selected from

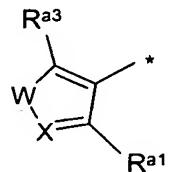
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the group consisting of O, S, S(=O), S(=O)<sub>2</sub> and N and which is at least monounsaturated or fully unsaturated, i.e. aromatic. Examples are 2-furyl and 3-furyl, thienyl, such as 2-thienyl and 3-thienyl, pyrrolyl, such as 2-pyrrolyl and 3-pyrrolyl, isoxazolyl, such as 3-isoxazolyl, 4-isoxazolyl and 5-isoxazolyl, isothiazolyl, such as 3-isothiazolyl, 4-isothiazolyl and 5-isothiazolyl, pyrazolyl, such as 3-pyrazolyl, 4-pyrazolyl and 5-pyrazolyl, oxazolyl, such as 2-oxazolyl, 4-oxazolyl and 5-oxazolyl, thiazolyl, such as 2-thiazolyl, 4-thiazolyl and 5-thiazolyl, imidazolyl, such as 2-imidazolyl and 4-imidazolyl, oxadiazolyl, such as 1,2,4-oxadiazol-3-yl, 1,2,4-oxadiazol-5-yl and 1,3,4-oxadiazol-2-yl, thiadiazolyl, such as 1,2,4-thiadiazol-3-yl, 1,2,4-thiadiazol-5-yl and 1,3,4-thiadiazol-2-yl, triazolyl, such as 1,2,4-triazol-1-yl, 1,2,4-triazol-3-yl and 1,2,4-triazol-4-yl, pyridynyl, such as 2-pyridynyl, 3-pyridynyl and 4-pyridynyl, pyridazinyl, such as 3-pyridazinyl and 4-pyridazinyl, pyrimidinyl, such as 2-pyrimidinyl, 4-pyrimidinyl and 5-pyrimidinyl, 2-pyrazinyl, 1,3,5-triazin-2-yl and 1,2,4-triazin-3-yl, 1,2-dihydrofuran-2-yl, 1,2-dihydrofuran-3-yl, 1,2-dihydrothiophen-2-yl, 1,2-dihydrothiophen-3-yl, 2,3-dihydropyran-4-yl, 2,3-dihydropyran-5-yl, 2,3-dihydropyran-6-yl, 5,6-dihydro-4H-pyran-3-yl, 2,3-dihydrothiopyran-4-yl, 2,3-dihydrothiopyran-5-yl, 2,3-dihydrothiopyran-6-yl, 5,6-dihydro-4H-thiopyran-3-yl, 5,6-dihydro-[1,4]dioxin-2-yl, 5,6-dihydro-[1,4]dithiin-2-yl or 5,6-dihydro[1,4]oxathiin-3-yl, in particular pyridyl, thiazolyl and pyrazolyl.

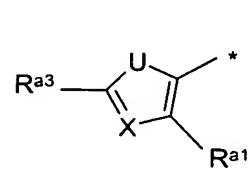
With a view to the fungicidal activity of the compounds I according to the invention, preference is given to those compounds of the formula I in which A is a cyclic radical A-1 to A-6:



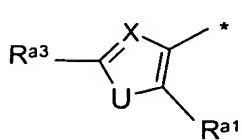
(A-1)



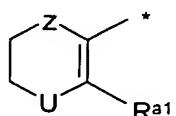
(A-2)



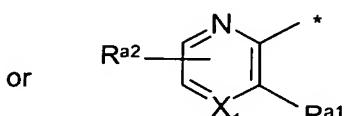
(A-3)



(A-4)



(A-5)



(A-6)

in which \* denotes the point of attachment to C(=Y) and the variables are as defined below:

5      X, X<sub>1</sub> are each independently of one another N or CR<sup>c</sup>, where R<sup>c</sup> is H or has one of the meanings mentioned for R<sup>b</sup>. In particular R<sup>c</sup> is hydrogen;

10     W is S or N-R<sup>a4</sup>, where R<sup>a4</sup> is hydrogen, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-haloalkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>-haloalkyl or phenyl which may be unsubstituted or may carry 1, 2 or 3 radicals R<sup>b</sup>; R<sup>a4</sup> in particular is hydrogen, C<sub>1</sub>-C<sub>4</sub>-alkyl or C<sub>1</sub>-C<sub>4</sub>-haloalkyl;

15     U is oxygen or sulfur;

20     Z is S, S(=O), S(=O)<sub>2</sub> or CH<sub>2</sub>, particularly preferably S or CH<sub>2</sub>;

25     R<sup>a1</sup> is hydrogen, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>-haloalkyl, C<sub>1</sub>-C<sub>4</sub>-haloalkoxy or halogen, particularly preferably hydrogen, halogen, C<sub>1</sub>-C<sub>2</sub>-alkyl, C<sub>1</sub>-C<sub>2</sub>-alkoxy, C<sub>1</sub>-C<sub>2</sub>-fluoroalkoxy or C<sub>1</sub>-C<sub>2</sub>-fluoroalkyl;

30     R<sup>a2</sup> are each independently of one another hydrogen, halogen, nitro, CN, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>2</sub>-C<sub>4</sub>-alkynyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, where the 5 last-mentioned groups may be substituted by halogen; and

35     R<sup>a3</sup> is hydrogen, halogen, nitro, CN, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>2</sub>-C<sub>4</sub>-alkynyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, where the 5 last-mentioned groups may be substituted by halogen, particularly preferably hydrogen, fluorine, chlorine or C<sub>1</sub>-C<sub>4</sub>-alkyl.

In the radicals of the formula A-1, A-2, A-3, A-4, A-5 and A-6, the variables R<sup>a1</sup>, R<sup>a2</sup> and R<sup>a3</sup> have in particular the following meanings:

40     R<sup>a1</sup> is hydrogen, halogen, in particular fluorine or chlorine, C<sub>1</sub>-C<sub>4</sub>-alkyl or C<sub>1</sub>-C<sub>4</sub>-haloalkyl, particularly preferably halogen, trifluoromethyl or methyl;

R<sup>a2</sup> is hydrogen; and

R<sup>a3</sup> is halogen, in particular fluorine or chlorine, or methyl.

In the formula A-2, W is preferably a group N-R<sup>a4</sup>, where R<sup>a4</sup> is as defined above and has in particular the meanings given as being preferred.

If X in the formulae A-1, A-2, A-3 or A-4 is a group C-R<sup>c</sup>, R<sup>c</sup> is preferably hydrogen.

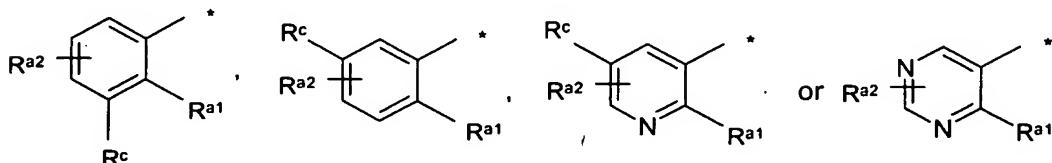
In the formulae A-2, A-3 and A-4, X is in particular N. In the formula A-1, X is in particular CH.

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In the formulae A-1 and A-6, X<sub>1</sub> is in particular N.

Examples for radicals A-1 are in particular:

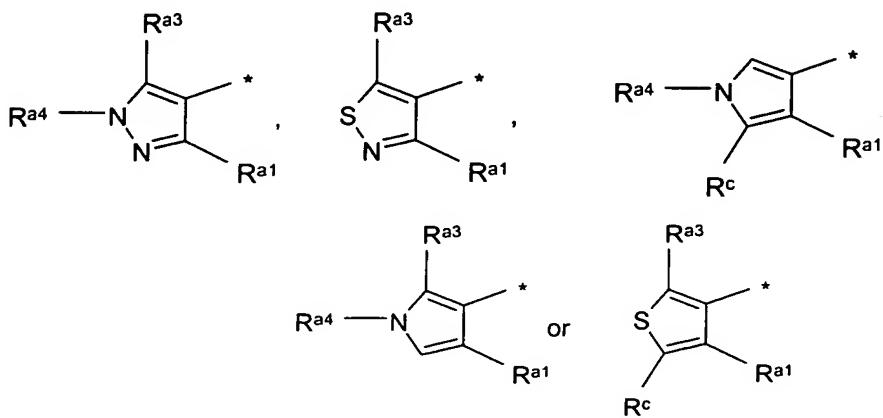
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in which \*, R<sup>a1</sup>, R<sup>a2</sup> and R<sup>c</sup> have the meanings mentioned above, in particular the preferred meanings.

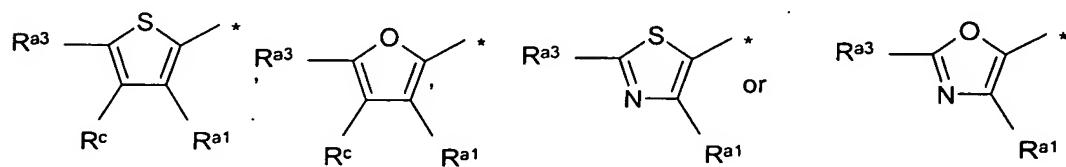
Examples for radicals A-2 are in particular:

15



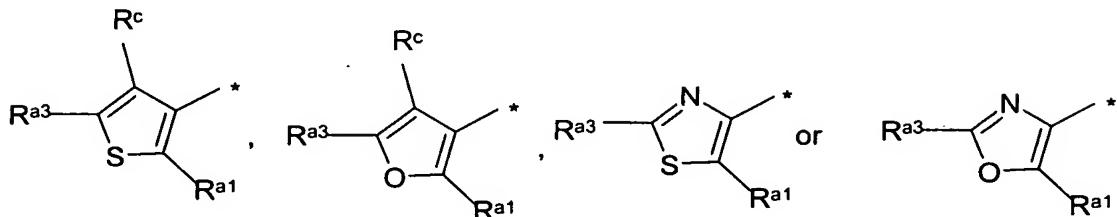
in which \*, R<sup>a1</sup>, R<sup>a3</sup>, R<sup>a4</sup> and R<sup>c</sup> have the meanings mentioned above, in particular the preferred meanings.

Examples for radicals A-3 are in particular:



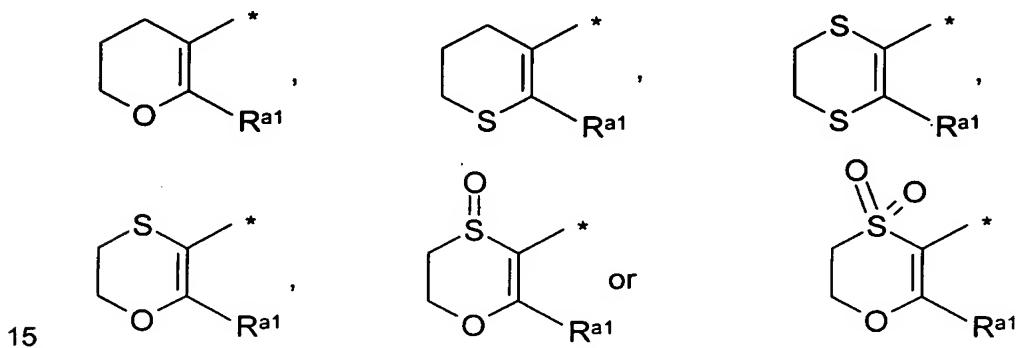
in which \*, R<sup>a1</sup>, R<sup>a3</sup> and R<sup>c</sup> have the meanings mentioned above, in particular the preferred meanings.

5 Examples for radicals A-4 are in particular:



10 Examples for radicals A-5 are in particular:

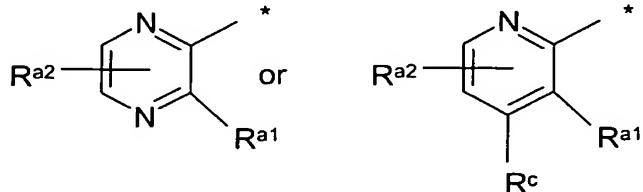
Examples for radicals A-5 are in particular:



15

in which \* and R<sup>a1</sup> have the meanings mentioned above, in particular the preferred meanings.

20 Examples for radicals A-6 are in particular:



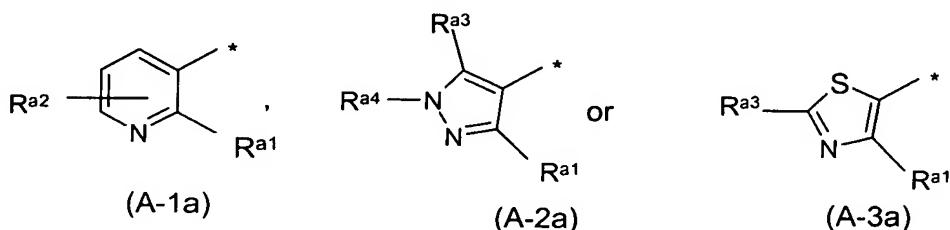
in which \*, R<sup>a1</sup>, R<sup>a2</sup> and R<sup>c</sup> have the meanings mentioned above, in particular the preferred meanings.

Examples for radicals A are: 2-chlorophenyl, 2-trifluoromethylphenyl, 2-difluoromethylphenyl, 2-methylphenyl, 2-chloropyridin-3-yl, 2-trifluoromethylpyridin-3-yl, 2-difluoromethylpyridin-3-yl, 2-methylpyridin-3-yl, 4-methylpyrimidin-5-yl, 4-trifluoromethylpyrimidin-5-yl, 4-difluoromethylpyrimidin-5-yl,

5 1-methyl-3-trifluoromethylpyrazol-4-yl, 1-methyl-3-difluoromethylpyrazol-4-yl,  
1,3-dimethylpyrazol-4-yl, 1-methyl-3-trifluoromethyl-5-fluoropyrazol-4-yl,  
1-methyl-3-difluoromethyl-5-fluoropyrazol-4-yl,  
1-methyl-3-trifluoromethyl-5-chloropyrazol-4-yl, 1-methyl-3-trifluoromethylpyrrol-4-yl,  
1-methyl-3-difluoromethylpyrrol-4-yl, 2-methyl-4-trifluoromethylthiazol-5-yl,  
10 2-methyl-4-difluoromethylthiazol-5-yl, 2,4-dimethylthiazol-5-yl,  
2-methyl-5-trifluoromethylthiazol-4-yl, 2-methyl-5-difluoromethylthiazol-4-yl,  
2,5-dimethylthiazol-4-yl, 2-methyl-4-trifluoromethyloxazol-5-yl,  
2-methyl-4-difluoromethyloxazol-5-yl, 2,4-dimethyloxazol-5-yl,  
2-trifluoromethylthiophen-3-yl, 5-methyl-2-trifluoromethylthiophen-3-yl,  
5 2-methylthiophen-3-yl, 2,5-dimethylthiophen-3-yl, 3-trifluoromethylthiophen-2-yl,  
3-methylthiophen-2-yl, 3,5-dimethylthiophen-2-yl, 5-methyl-3-trifluoromethyl-  
thiophen-2-yl, 2-trifluoromethylfuran-3-yl, 5-methyl-2-trifluoromethylfuran-3-yl,  
2-methylfuran-3-yl, 2,5-dimethylfuran-3-yl, 2-methyl-5,6-dihydro[1,4]oxathiin-3-yl,  
2-methyl-5,6-dihydro-4H-thiopyran-3-yl.

20

With particular preference, A is a radical A-1a, A-2a or A-3a.



25 in which  $*$ ,  $R^{a1}$ ,  $R^{a2}$ ,  $R^{a3}$  and  $R^{a4}$  have the meanings given above, in particular the preferred meanings.

Preference is given to radicals A-1a where R<sup>a1</sup> is hydrogen, halogen, C<sub>1</sub>-C<sub>2</sub>-alkyl, C<sub>1</sub>-C<sub>2</sub>-alkoxy, C<sub>1</sub>-C<sub>2</sub>-fluoroalkoxy or C<sub>1</sub>-C<sub>2</sub>-fluoroalkyl; in particular hydrogen, chlorine

30 bromine, fluorine, methyl, ethyl, methoxy, trifluoromethyl, difluoromethyl, trifluoromethoxy or difluoromethoxy, very particularly preferably fluorine, bromine, chlorine, methyl or trifluoromethyl, and especially chlorine; where R<sup>a2</sup> is hydrogen, halogen, nitro, CN, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>2</sub>-C<sub>4</sub>-alkynyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, where the 5 last-mentioned groups may be substituted by halogen, especially hydrogen.

35

Preference is given to radicals A-2a where: R<sup>a1</sup> is hydrogen, halogen, C<sub>1</sub>-C<sub>2</sub>-alkyl, C<sub>1</sub>-C<sub>2</sub>-alkoxy, C<sub>1</sub>-C<sub>2</sub>-fluoroalkoxy or C<sub>1</sub>-C<sub>2</sub>-fluoroalkyl, in particular hydrogen, chlorine, bromine, fluorine, methyl, ethyl, methoxy, trifluoromethyl, difluoromethyl,

5 trifluoromethoxy or difluoromethoxy, very particularly preferably fluorine, bromine, chlorine, methyl or trifluoromethyl, especially trifluoromethyl; R<sup>a3</sup> is hydrogen, halogen, nitro, CN, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>2</sub>-C<sub>4</sub>-alkynyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, where the 5 last-mentioned groups may be substituted by halogen, preferably hydrogen, halogen and C<sub>1</sub>-C<sub>4</sub>-alkyl, in particular halogen, hydrogen; and especially

10 hydrogen; and R<sup>a4</sup> is hydrogen, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-haloalkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>-haloalkyl or phenyl, which may be unsubstituted or may carry 1, 2 or 3 radicals R<sup>b</sup>, preferably hydrogen, C<sub>1</sub>-C<sub>4</sub>-alkyl or C<sub>1</sub>-C<sub>4</sub>-haloalkyl, especially methyl.

Preference is given to radicals A-3a where: R<sup>a1</sup> is hydrogen, halogen, C<sub>1</sub>-C<sub>2</sub>-alkyl, C<sub>1</sub>-C<sub>2</sub>-alkoxy, C<sub>1</sub>-C<sub>2</sub>-fluoroalkoxy or C<sub>1</sub>-C<sub>2</sub>-fluoroalkyl, in particular hydrogen, chlorine, bromine, fluorine, methyl, ethyl, methoxy, trifluoromethyl, difluoromethyl, trifluoromethoxy or difluoromethoxy, very particularly preferably fluorine, bromine, chlorine, methyl or trifluoromethyl, especially trifluoromethyl; R<sup>a3</sup> is hydrogen, halogen, nitro, CN, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>2</sub>-C<sub>4</sub>-alkynyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy,

20 where the 5 last-mentioned groups may be substituted by halogen, preferably hydrogen, halogen or C<sub>1</sub>-C<sub>4</sub>-alkyl, in particular hydrogen, methyl and especially methyl.

With particular preference, A is selected from the group consisting of:

A-1a where R<sup>a1</sup> = halogen, especially chlorine and R<sup>a2</sup> = hydrogen;

25 A-2a where R<sup>a1</sup> = C<sub>1</sub>-C<sub>2</sub>-fluoroalkyl, especially trifluoromethyl, R<sup>a3</sup> = hydrogen and R<sup>a4</sup> = C<sub>1</sub>-C<sub>4</sub>-alkyl, especially methyl; and

A-3a where R<sup>a1</sup> = C<sub>1</sub>-C<sub>2</sub>-fluoroalkyl, especially trifluoromethyl, and R<sup>a3</sup> = C<sub>1</sub>-C<sub>4</sub>-alkyl, especially methyl.

30 With a view to their fungicidal activity, preference is given to (hetero)cyclcarbox-anilides of the formula I in which the variables Y, R<sup>1</sup>, R<sup>2</sup>, R<sup>3m</sup>, R<sup>4m</sup>, R<sup>5</sup>, R<sup>6</sup>, n and m independently of one another and preferably in combination have the following meanings:

35 Y is O;

R<sup>1</sup> is hydrogen, OH, C<sub>1</sub>-C<sub>4</sub>-alkyl, in particular H, OH or methyl and especially H;

R<sup>2</sup> is C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>-haloalkyl, C<sub>1</sub>-C<sub>4</sub>-haloalkoxy, nitro, cyano or halogen; particularly preferably C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, nitro, cyano or halogen

and especially methyl, methoxy, fluorine, chlorine, bromine, nitro or cyano.

- n is 0 or 1, particularly preferably 0;
- 5 R<sup>3m</sup>, R<sup>4m</sup> are each independently of one another hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl or C<sub>3</sub>-C<sub>6</sub>-halocycloalkyl, phenyl, which may be unsubstituted or may carry one, two or three radicals R<sup>b</sup>; preferably hydrogen or C<sub>1</sub>-C<sub>4</sub>-alkyl; especially: R<sup>31</sup> and R<sup>41</sup> are each independently of one another hydrogen, methyl, ethyl;
- 10 m is 1;
- R<sup>5</sup> is hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>3</sub>-C<sub>6</sub>-halocycloalkyl, phenyl, phenyl-C<sub>1</sub>-C<sub>4</sub>-alkyl, phenyl-C<sub>1</sub>-C<sub>4</sub>-haloalkyl, where phenyl in the three last-mentioned radicals may be unsubstituted or may carry one, two or three radicals R<sup>b</sup>; preferably hydrogen, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-haloalkyl, phenyl, which may be unsubstituted or may carry one, two or three radicals R<sup>b</sup>;
- 15 R<sup>6</sup> is C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-haloalkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>3</sub>-C<sub>6</sub>-halocycloalkyl, C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>2</sub>-C<sub>6</sub>-haloalkenyl, C<sub>2</sub>-C<sub>4</sub>-alkynyl, C<sub>2</sub>-C<sub>4</sub>-haloalkynyl, phenyl-C<sub>1</sub>-C<sub>2</sub>-alkyl or phenyl, where phenyl in the two last-mentioned radicals may be unsubstituted or may carry one or two halogen groups, especially fluorine or chlorine.
- 20 25 Particular preference is furthermore given to the (heterocyclyl)carboxanilides of the formula I, in which R<sup>1</sup>, R<sup>2</sup>, R<sup>3m</sup>, R<sup>4m</sup>, R<sup>5</sup>, R<sup>6</sup>, n and m have the meanings mentioned above and in particular the preferred meanings, Y is oxygen and A is selected from the group consisting of:
- 30 A-1, where X and X<sub>1</sub> are each nitrogen, R<sup>a1</sup> has the meanings mentioned above, in particular the preferred meanings, and is especially methyl, trifluoromethyl, chlorine, bromine or fluorine; R<sup>a2</sup> has the meanings mentioned above and is especially hydrogen;
- 35 A-2, where X is N, W is S, R<sup>a1</sup> has the meanings mentioned above, in particular the preferred meanings, and is especially methyl, fluorine, chlorine, bromine or trifluoromethyl; R<sup>a3</sup> has the meanings mentioned above, in particular the preferred meanings, and is especially hydrogen;
- 40 A-2, where X is CH, W is N-R<sup>a4</sup>, where R<sup>a4</sup> is C<sub>1</sub>-C<sub>4</sub>-alkyl, especially methyl, R<sup>a1</sup> has the

meanings mentioned above, in particular the preferred meanings and is especially methyl, fluorine, chlorine, bromine or trifluoromethyl; R<sup>a3</sup> has the meanings mentioned above, in particular the preferred meanings, and is especially hydrogen;

- 5 A-3, where U is O, X is N, R<sup>a1</sup> has the meanings mentioned above, in particular the preferred meanings, and is especially methyl, fluorine, chlorine, bromine or trifluoromethyl; R<sup>a3</sup> has the meanings mentioned above, in particular the preferred meanings, and is especially hydrogen or methyl;
- 10 A-3, where U is S, X is CH, R<sup>a1</sup> has the meanings mentioned above, in particular the preferred meanings, and is especially methyl, fluorine, chlorine, bromine or trifluoromethyl; R<sup>a3</sup> has the meanings mentioned above, in particular the preferred meanings, and is especially hydrogen or methyl;
- 15 A-4, where U is O, X is CH or N, R<sup>a1</sup> has the meanings mentioned above, in particular the preferred meanings, and is especially methyl, fluorine, chlorine, bromine or trifluoromethyl; R<sup>a3</sup> has the meanings mentioned above, in particular the preferred meanings, and is especially hydrogen or methyl;
- 20 A-4, where U is S, X is CH or N, R<sup>a1</sup> has the meanings mentioned above, in particular the preferred meanings, and is especially methyl, fluorine, chlorine, bromine or trifluoromethyl; R<sup>a3</sup> has the meanings mentioned above, in particular the preferred meanings, and is especially hydrogen or methyl;
- 25 A-5, where U is oxygen, Z is CH<sub>2</sub>, S, S(=O) or S(=O)<sub>2</sub> and R<sup>a1</sup> has the meanings mentioned above, in particular the preferred meanings, and is especially methyl, fluorine, chlorine, bromine or trifluoromethyl;
- 30 A-6, where X, is nitrogen, R<sup>a2</sup> has the meanings mentioned above and is especially hydrogen; R<sup>a1</sup> has the meanings mentioned above, in particular the preferred meanings, and is especially methyl, fluorine, chlorine, bromine or trifluoromethyl.

- 35 In particular with a view to their use as fungicides and active compounds for controlling pests, preference is given to the individual compounds of the formula Ia (compounds I where R<sup>1</sup> = H, n = 0) compiled in tables 1 to 42 below, where the variables R<sup>5</sup>, R<sup>6</sup>, R<sup>3m</sup>, R<sup>4m</sup> and m each have the meanings given in one row of table A and the variable A has the meaning given in the respective table. In the case of compounds containing double bonds this comprises both the isomerically pure E isomers, Z isomers and isomer mixtures.

17

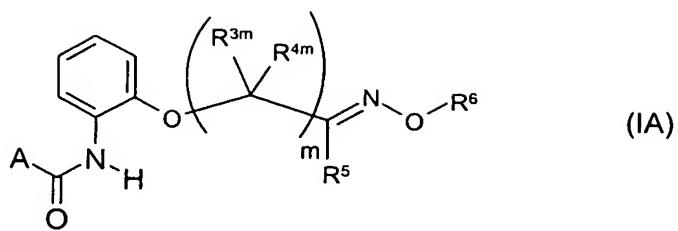


Table A:

No.	R<sup>5</sup>	R<sup>6</sup>	(C(R<sup>3m</sup>)(R<sup>4m</sup>)) <sub>m</sub>
1	H	CH <sub>3</sub>	-CH <sub>2</sub> -
2	H	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> -
3	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
4	H	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> -
5	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
6	H	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> -
7	H	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> -
8	H	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> -
9	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
10	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
11	H	cyclopentyl	-CH <sub>2</sub> -
12	H	cyclohexyl	-CH <sub>2</sub> -
13	H	allyl	-CH <sub>2</sub> -
14	H	but-2-en-1-yl	-CH <sub>2</sub> -
15	H	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> -
16	H	propargyl	-CH <sub>2</sub> -
17	H	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> -
18	H	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> -
19	H	2-phenyleth-1-yl	-CH <sub>2</sub> -
20	H	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> -
21	H	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> -
22	H	CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
23	H	C <sub>2</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )-
24	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
25	H	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH(CH <sub>3</sub> )-
26	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
27	H	i-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )-
28	H	s-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )-
29	H	C(CH <sub>3</sub> ) <sub>3</sub>	-CH(CH <sub>3</sub> )-

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
30	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
31	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
32	H	cyclopentyl	-CH(CH <sub>3</sub> )-
33	H	cyclohexyl	-CH(CH <sub>3</sub> )-
34	H	allyl	-CH(CH <sub>3</sub> )-
35	H	but-2-en-1-yl	-CH(CH <sub>3</sub> )-
36	H	4-chlorobut-2-en-1-yl	-CH(CH <sub>3</sub> )-
37	H	propargyl	-CH(CH <sub>3</sub> )-
38	H	C <sub>6</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )-
39	H	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH(CH <sub>3</sub> )-
40	H	2-phenyleth-1-yl	-CH(CH <sub>3</sub> )-
41	H	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )-
42	H	4-F-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )-
43	H	CH <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
44	H	C <sub>2</sub> H <sub>5</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
45	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
46	H	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
47	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
48	H	i-C <sub>4</sub> H <sub>9</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
49	H	s-C <sub>4</sub> H <sub>9</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
50	H	C(CH <sub>3</sub> ) <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
51	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
52	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
53	H	cyclopentyl	-CH(C <sub>2</sub> H <sub>5</sub> )-
54	H	cyclohexyl	-CH(C <sub>2</sub> H <sub>5</sub> )-
55	H	allyl	-CH(C <sub>2</sub> H <sub>5</sub> )-
56	H	but-2-en-1-yl	-CH(C <sub>2</sub> H <sub>5</sub> )-
57	H	4-chlorobut-2-en-1-yl	-CH(C <sub>2</sub> H <sub>5</sub> )-
58	H	propargyl	-CH(C <sub>2</sub> H <sub>5</sub> )-
59	H	C <sub>6</sub> H <sub>5</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
60	H	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
61	H	2-phenyleth-1-yl	-CH(C <sub>2</sub> H <sub>5</sub> )-
62	H	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
63	H	4-F-C <sub>6</sub> H <sub>4</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
64	H	CH <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
65	H	C <sub>2</sub> H <sub>5</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
66	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
67	H	CH(CH <sub>3</sub> ) <sub>2</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
68	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
69	H	i-C <sub>4</sub> H <sub>9</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
70	H	s-C <sub>4</sub> H <sub>9</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
71	H	C(CH <sub>3</sub> ) <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
72	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
73	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
74	H	cyclopentyl	-C(CH <sub>3</sub> ) <sub>2</sub> -
75	H	cyclohexyl	-C(CH <sub>3</sub> ) <sub>2</sub> -
76	H	allyl	-C(CH <sub>3</sub> ) <sub>2</sub> -
77	H	but-2-en-1-yl	-C(CH <sub>3</sub> ) <sub>2</sub> -
78	H	4-chlorobut-2-en-1-yl	-C(CH <sub>3</sub> ) <sub>2</sub> -
79	H	propargyl	-C(CH <sub>3</sub> ) <sub>2</sub> -
80	H	C <sub>6</sub> H <sub>5</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
81	H	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
82	H	2-phenyleth-1-yl	-C(CH <sub>3</sub> ) <sub>2</sub> -
83	H	4-Cl-C <sub>6</sub> H <sub>4</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
84	H	4-F-C <sub>6</sub> H <sub>4</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
85	H	CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
86	H	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
87	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
88	H	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
89	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
90	H	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
91	H	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
92	H	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
93	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
94	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
95	H	cyclopentyl	-CH <sub>2</sub> CH <sub>2</sub> -
96	H	cyclohexyl	-CH <sub>2</sub> CH <sub>2</sub> -
97	H	allyl	-CH <sub>2</sub> CH <sub>2</sub> -
98	H	but-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
99	H	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
100	H	propargyl	-CH <sub>2</sub> CH <sub>2</sub> -
101	H	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
102	H	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
103	H	2-phenyleth-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
104	H	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
105	H	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> -

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
106	H	CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
107	H	C <sub>2</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
108	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
109	H	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
110	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
111	H	i-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
112	H	s-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
113	H	C(CH <sub>3</sub> ) <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
114	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
115	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
116	H	cyclopentyl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
117	H	cyclohexyl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
118	H	allyl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
119	H	but-2-en-1-yl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
120	H	4-chlorobut-2-en-1-yl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
121	H	propargyl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
122	H	C <sub>6</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
123	H	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
124	H	2-phenyleth-1-yl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
125	H	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
126	H	4-F-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
127	H	CH <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
128	H	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
129	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
130	H	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
131	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
132	H	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
133	H	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
134	H	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
135	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
136	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
137	H	cyclopentyl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
138	H	cyclohexyl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
139	H	allyl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
140	H	but-2-en-1-yl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
141	H	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
142	H	propargyl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
143	H	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
144	H	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
145	H	2-phenyleth-1-yl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
146	H	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
147	H	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
148	H	CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
149	H	C <sub>2</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
150	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
151	H	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
152	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
153	H	i-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
154	H	s-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
155	H	C(CH <sub>3</sub> ) <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
156	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
157	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
158	H	cyclopentyl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
159	H	cyclohexyl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
160	H	allyl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
161	H	but-2-en-1-yl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
162	H	4-chlorobut-2-en-1-yl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
163	H	propargyl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
164	H	C <sub>6</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
165	H	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
166	H	2-phenyleth-1-yl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
167	H	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
168	H	4-F-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
169	H	CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
170	H	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
171	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
172	H	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
173	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
174	H	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
175	H	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
176	H	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
177	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
178	H	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
179	H	cyclopentyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
180	H	cyclohexyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
181	H	allyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
182	H	but-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
183	H	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
184	H	propargyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
185	H	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
186	H	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
187	H	2-phenyleth-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
188	H	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
189	H	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
190	CH <sub>3</sub>	CH <sub>3</sub>	-CH <sub>2</sub> -
191	CH <sub>3</sub>	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> -
192	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
193	CH <sub>3</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> -
194	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
195	CH <sub>3</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> -
196	CH <sub>3</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> -
197	CH <sub>3</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> -
198	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
199	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
200	CH <sub>3</sub>	cyclopentyl	-CH <sub>2</sub> -
201	CH <sub>3</sub>	cyclohexyl	-CH <sub>2</sub> -
202	CH <sub>3</sub>	allyl	-CH <sub>2</sub> -
203	CH <sub>3</sub>	but-2-en-1-yl	-CH <sub>2</sub> -
204	CH <sub>3</sub>	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> -
205	CH <sub>3</sub>	propargyl	-CH <sub>2</sub> -
206	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> -
207	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> -
208	CH <sub>3</sub>	2-phenyleth-1-yl	-CH <sub>2</sub> -
209	CH <sub>3</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> -
210	CH <sub>3</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> -
211	CH <sub>3</sub>	CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
212	CH <sub>3</sub>	C <sub>2</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )-
213	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
214	CH <sub>3</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH(CH <sub>3</sub> )-
215	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
216	CH <sub>3</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )-
217	CH <sub>3</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )-
218	CH <sub>3</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH(CH <sub>3</sub> )-
219	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
220	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
221	CH <sub>3</sub>	cyclopentyl	-CH(CH <sub>3</sub> )-
222	CH <sub>3</sub>	cyclohexyl	-CH(CH <sub>3</sub> )-
223	CH <sub>3</sub>	allyl	-CH(CH <sub>3</sub> )-
224	CH <sub>3</sub>	but-2-en-1-yl	-CH(CH <sub>3</sub> )-
225	CH <sub>3</sub>	4-chlorobut-2-en-1-yl	-CH(CH <sub>3</sub> )-
226	CH <sub>3</sub>	propargyl	-CH(CH <sub>3</sub> )-
227	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )-
228	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH(CH <sub>3</sub> )-
229	CH <sub>3</sub>	2-phenyleth-1-yl	-CH(CH <sub>3</sub> )-
230	CH <sub>3</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )-
231	CH <sub>3</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )-
232	CH <sub>3</sub>	CH <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
233	CH <sub>3</sub>	C <sub>2</sub> H <sub>5</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
234	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
235	CH <sub>3</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
236	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
237	CH <sub>3</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
238	CH <sub>3</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
239	CH <sub>3</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
240	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
241	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
242	CH <sub>3</sub>	cyclopentyl	-CH(C <sub>2</sub> H <sub>5</sub> )-
243	CH <sub>3</sub>	cyclohexyl	-CH(C <sub>2</sub> H <sub>5</sub> )-
244	CH <sub>3</sub>	allyl	-CH(C <sub>2</sub> H <sub>5</sub> )-
245	CH <sub>3</sub>	but-2-en-1-yl	-CH(C <sub>2</sub> H <sub>5</sub> )-
246	CH <sub>3</sub>	4-chlorobut-2-en-1-yl	-CH(C <sub>2</sub> H <sub>5</sub> )-
247	CH <sub>3</sub>	propargyl	-CH(C <sub>2</sub> H <sub>5</sub> )-
248	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
249	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
250	CH <sub>3</sub>	2-phenyleth-1-yl	-CH(C <sub>2</sub> H <sub>5</sub> )-
251	CH <sub>3</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
252	CH <sub>3</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
253	CH <sub>3</sub>	CH <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
254	CH <sub>3</sub>	C <sub>2</sub> H <sub>5</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
255	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
256	CH <sub>3</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
257	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
258	CH <sub>3</sub>	i-C <sub>4</sub> H <sub>9</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
259	CH <sub>3</sub>	s-C <sub>4</sub> H <sub>9</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
260	CH <sub>3</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
261	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
262	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
263	CH <sub>3</sub>	cyclopentyl	-C(CH <sub>3</sub> ) <sub>2</sub> -
264	CH <sub>3</sub>	cyclohexyl	-C(CH <sub>3</sub> ) <sub>2</sub> -
265	CH <sub>3</sub>	allyl	-C(CH <sub>3</sub> ) <sub>2</sub> -
266	CH <sub>3</sub>	but-2-en-1-yl	-C(CH <sub>3</sub> ) <sub>2</sub> -
267	CH <sub>3</sub>	4-chlorobut-2-en-1-yl	-C(CH <sub>3</sub> ) <sub>2</sub> -
268	CH <sub>3</sub>	propargyl	-C(CH <sub>3</sub> ) <sub>2</sub> -
269	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
270	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
271	CH <sub>3</sub>	2-phenyleth-1-yl	-C(CH <sub>3</sub> ) <sub>2</sub> -
272	CH <sub>3</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
273	CH <sub>3</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
274	CH <sub>3</sub>	CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
275	CH <sub>3</sub>	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
276	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
277	CH <sub>3</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
278	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
279	CH <sub>3</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
280	CH <sub>3</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
281	CH <sub>3</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
282	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
283	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
284	CH <sub>3</sub>	cyclopentyl	-CH <sub>2</sub> CH <sub>2</sub> -
285	CH <sub>3</sub>	cyclohexyl	-CH <sub>2</sub> CH <sub>2</sub> -
286	CH <sub>3</sub>	allyl	-CH <sub>2</sub> CH <sub>2</sub> -
287	CH <sub>3</sub>	but-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
288	CH <sub>3</sub>	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
289	CH <sub>3</sub>	propargyl	-CH <sub>2</sub> CH <sub>2</sub> -
290	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
291	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
292	CH <sub>3</sub>	2-phenyleth-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
293	CH <sub>3</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
294	CH <sub>3</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
295	CH <sub>3</sub>	CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
296	CH <sub>3</sub>	C <sub>2</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
297	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
298	CH <sub>3</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
299	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
300	CH <sub>3</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
301	CH <sub>3</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
302	CH <sub>3</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
303	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
304	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
305	CH <sub>3</sub>	cyclopentyl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
306	CH <sub>3</sub>	cyclohexyl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
307	CH <sub>3</sub>	allyl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
308	CH <sub>3</sub>	but-2-en-1-yl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
309	CH <sub>3</sub>	4-chlorobut-2-en-1-yl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
310	CH <sub>3</sub>	propargyl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
311	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
312	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
313	CH <sub>3</sub>	2-phenyleth-1-yl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
314	CH <sub>3</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
315	CH <sub>3</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
316	CH <sub>3</sub>	CH <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
317	CH <sub>3</sub>	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
318	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
319	CH <sub>3</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
320	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
321	CH <sub>3</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
322	CH <sub>3</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
323	CH <sub>3</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
324	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
325	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
326	CH <sub>3</sub>	cyclopentyl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
327	CH <sub>3</sub>	cyclohexyl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
328	CH <sub>3</sub>	allyl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
329	CH <sub>3</sub>	but-2-en-1-yl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
330	CH <sub>3</sub>	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
331	CH <sub>3</sub>	propargyl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
332	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
333	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
334	CH <sub>3</sub>	2-phenyleth-1-yl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
335	CH <sub>3</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
336	CH <sub>3</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
337	CH <sub>3</sub>	CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
338	CH <sub>3</sub>	C <sub>2</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
339	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
340	CH <sub>3</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
341	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
342	CH <sub>3</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
343	CH <sub>3</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
344	CH <sub>3</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
345	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
346	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
347	CH <sub>3</sub>	cyclopentyl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
348	CH <sub>3</sub>	cyclohexyl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
349	CH <sub>3</sub>	allyl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
350	CH <sub>3</sub>	but-2-en-1-yl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
351	CH <sub>3</sub>	4-chlorobut-2-en-1-yl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
352	CH <sub>3</sub>	propargyl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
353	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
354	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
355	CH <sub>3</sub>	2-phenyleth-1-yl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
356	CH <sub>3</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
357	CH <sub>3</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
358	CH <sub>3</sub>	CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
359	CH <sub>3</sub>	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
360	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
361	CH <sub>3</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
362	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
363	CH <sub>3</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
364	CH <sub>3</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
365	CH <sub>3</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
366	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
367	CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
368	CH <sub>3</sub>	cyclopentyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
369	CH <sub>3</sub>	cyclohexyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
370	CH <sub>3</sub>	allyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
371	CH <sub>3</sub>	but-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
372	CH <sub>3</sub>	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
373	CH <sub>3</sub>	propargyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
374	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
375	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
376	CH <sub>3</sub>	2-phenyleth-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
377	CH <sub>3</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
378	CH <sub>3</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
379	C <sub>2</sub> H <sub>5</sub>	CH <sub>3</sub>	-CH <sub>2</sub> -
380	C <sub>2</sub> H <sub>5</sub>	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> -
381	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
382	C <sub>2</sub> H <sub>5</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> -
383	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
384	C <sub>2</sub> H <sub>5</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> -
385	C <sub>2</sub> H <sub>5</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> -
386	C <sub>2</sub> H <sub>5</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> -
387	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
388	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
389	C <sub>2</sub> H <sub>5</sub>	cyclopentyl	-CH <sub>2</sub> -
390	C <sub>2</sub> H <sub>5</sub>	cyclohexyl	-CH <sub>2</sub> -
391	C <sub>2</sub> H <sub>5</sub>	allyl	-CH <sub>2</sub> -
392	C <sub>2</sub> H <sub>5</sub>	but-2-en-1-yl	-CH <sub>2</sub> -
393	C <sub>2</sub> H <sub>5</sub>	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> -
394	C <sub>2</sub> H <sub>5</sub>	propargyl	-CH <sub>2</sub> -
395	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> -
396	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> -
397	C <sub>2</sub> H <sub>5</sub>	2-phenyleth-1-yl	-CH <sub>2</sub> -
398	C <sub>2</sub> H <sub>5</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> -
399	C <sub>2</sub> H <sub>5</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> -
400	C <sub>2</sub> H <sub>5</sub>	CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
401	C <sub>2</sub> H <sub>5</sub>	C <sub>2</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )-
402	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
403	C <sub>2</sub> H <sub>5</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH(CH <sub>3</sub> )-
404	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
405	C <sub>2</sub> H <sub>5</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )-
406	C <sub>2</sub> H <sub>5</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )-
407	C <sub>2</sub> H <sub>5</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH(CH <sub>3</sub> )-
408	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
409	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
410	C <sub>2</sub> H <sub>5</sub>	cyclopentyl	-CH(CH <sub>3</sub> )-
411	C <sub>2</sub> H <sub>5</sub>	cyclohexyl	-CH(CH <sub>3</sub> )-
412	C <sub>2</sub> H <sub>5</sub>	allyl	-CH(CH <sub>3</sub> )-
413	C <sub>2</sub> H <sub>5</sub>	but-2-en-1-yl	-CH(CH <sub>3</sub> )-
414	C <sub>2</sub> H <sub>5</sub>	4-chlorobut-2-en-1-yl	-CH(CH <sub>3</sub> )-
415	C <sub>2</sub> H <sub>5</sub>	propargyl	-CH(CH <sub>3</sub> )-
416	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )-
417	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH(CH <sub>3</sub> )-
418	C <sub>2</sub> H <sub>5</sub>	2-phenyleth-1-yl	-CH(CH <sub>3</sub> )-
419	C <sub>2</sub> H <sub>5</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )-
420	C <sub>2</sub> H <sub>5</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )-
421	C <sub>2</sub> H <sub>5</sub>	CH <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
422	C <sub>2</sub> H <sub>5</sub>	C <sub>2</sub> H <sub>5</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
423	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
424	C <sub>2</sub> H <sub>5</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
425	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
426	C <sub>2</sub> H <sub>5</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
427	C <sub>2</sub> H <sub>5</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
428	C <sub>2</sub> H <sub>5</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
429	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
430	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
431	C <sub>2</sub> H <sub>5</sub>	cyclopentyl	-CH(C <sub>2</sub> H <sub>5</sub> )-
432	C <sub>2</sub> H <sub>5</sub>	cyclohexyl	-CH(C <sub>2</sub> H <sub>5</sub> )-
433	C <sub>2</sub> H <sub>5</sub>	allyl	-CH(C <sub>2</sub> H <sub>5</sub> )-
434	C <sub>2</sub> H <sub>5</sub>	but-2-en-1-yl	-CH(C <sub>2</sub> H <sub>5</sub> )-
435	C <sub>2</sub> H <sub>5</sub>	4-chlorobut-2-en-1-yl	-CH(C <sub>2</sub> H <sub>5</sub> )-
436	C <sub>2</sub> H <sub>5</sub>	propargyl	-CH(C <sub>2</sub> H <sub>5</sub> )-
437	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
438	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
439	C <sub>2</sub> H <sub>5</sub>	2-phenyleth-1-yl	-CH(C <sub>2</sub> H <sub>5</sub> )-
440	C <sub>2</sub> H <sub>5</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
441	C <sub>2</sub> H <sub>5</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH(C <sub>2</sub> H <sub>5</sub> )-
442	C <sub>2</sub> H <sub>5</sub>	CH <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
443	C <sub>2</sub> H <sub>5</sub>	C <sub>2</sub> H <sub>5</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
444	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
445	C <sub>2</sub> H <sub>5</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
446	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
447	C <sub>2</sub> H <sub>5</sub>	i-C <sub>4</sub> H <sub>9</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
448	C <sub>2</sub> H <sub>5</sub>	s-C <sub>4</sub> H <sub>9</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
449	C <sub>2</sub> H <sub>5</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
450	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
451	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
452	C <sub>2</sub> H <sub>5</sub>	cyclopentyl	-C(CH <sub>3</sub> ) <sub>2</sub> -
453	C <sub>2</sub> H <sub>5</sub>	cyclohexyl	-C(CH <sub>3</sub> ) <sub>2</sub> -
454	C <sub>2</sub> H <sub>5</sub>	allyl	-C(CH <sub>3</sub> ) <sub>2</sub> -
455	C <sub>2</sub> H <sub>5</sub>	but-2-en-1-yl	-C(CH <sub>3</sub> ) <sub>2</sub> -
456	C <sub>2</sub> H <sub>5</sub>	4-chlorobut-2-en-1-yl	-C(CH <sub>3</sub> ) <sub>2</sub> -
457	C <sub>2</sub> H <sub>5</sub>	propargyl	-C(CH <sub>3</sub> ) <sub>2</sub> -
458	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
459	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
460	C <sub>2</sub> H <sub>5</sub>	2-phenyleth-1-yl	-C(CH <sub>3</sub> ) <sub>2</sub> -
461	C <sub>2</sub> H <sub>5</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
462	C <sub>2</sub> H <sub>5</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-C(CH <sub>3</sub> ) <sub>2</sub> -
463	C <sub>2</sub> H <sub>5</sub>	CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
464	C <sub>2</sub> H <sub>5</sub>	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
465	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
466	C <sub>2</sub> H <sub>5</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
467	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
468	C <sub>2</sub> H <sub>5</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
469	C <sub>2</sub> H <sub>5</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
470	C <sub>2</sub> H <sub>5</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
471	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
472	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
473	C <sub>2</sub> H <sub>5</sub>	cyclopentyl	-CH <sub>2</sub> CH <sub>2</sub> -
474	C <sub>2</sub> H <sub>5</sub>	cyclohexyl	-CH <sub>2</sub> CH <sub>2</sub> -
475	C <sub>2</sub> H <sub>5</sub>	allyl	-CH <sub>2</sub> CH <sub>2</sub> -
476	C <sub>2</sub> H <sub>5</sub>	but-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
477	C <sub>2</sub> H <sub>5</sub>	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
478	C <sub>2</sub> H <sub>5</sub>	propargyl	-CH <sub>2</sub> CH <sub>2</sub> -
479	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
480	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
481	C <sub>2</sub> H <sub>5</sub>	2-phenyleth-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
482	C <sub>2</sub> H <sub>5</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
483	C <sub>2</sub> H <sub>5</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
484	C <sub>2</sub> H <sub>5</sub>	CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
485	C <sub>2</sub> H <sub>5</sub>	C <sub>2</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
486	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
487	C <sub>2</sub> H <sub>5</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
488	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
489	C <sub>2</sub> H <sub>5</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
490	C <sub>2</sub> H <sub>5</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
491	C <sub>2</sub> H <sub>5</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
492	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
493	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
494	C <sub>2</sub> H <sub>5</sub>	cyclopentyl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
495	C <sub>2</sub> H <sub>5</sub>	cyclohexyl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
496	C <sub>2</sub> H <sub>5</sub>	allyl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
497	C <sub>2</sub> H <sub>5</sub>	but-2-en-1-yl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
498	C <sub>2</sub> H <sub>5</sub>	4-chlorobut-2-en-1-yl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
499	C <sub>2</sub> H <sub>5</sub>	propargyl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
500	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
501	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
502	C <sub>2</sub> H <sub>5</sub>	2-phenyleth-1-yl	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
503	C <sub>2</sub> H <sub>5</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
504	C <sub>2</sub> H <sub>5</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )CH <sub>2</sub> -
505	C <sub>2</sub> H <sub>5</sub>	CH <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
506	C <sub>2</sub> H <sub>5</sub>	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
507	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
508	C <sub>2</sub> H <sub>5</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
509	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
510	C <sub>2</sub> H <sub>5</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
511	C <sub>2</sub> H <sub>5</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
512	C <sub>2</sub> H <sub>5</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
513	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
514	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
515	C <sub>2</sub> H <sub>5</sub>	cyclopentyl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
516	C <sub>2</sub> H <sub>5</sub>	cyclohexyl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
517	C <sub>2</sub> H <sub>5</sub>	allyl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
518	C <sub>2</sub> H <sub>5</sub>	but-2-en-1-yl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
519	C <sub>2</sub> H <sub>5</sub>	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
520	C <sub>2</sub> H <sub>5</sub>	propargyl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
521	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
522	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
523	C <sub>2</sub> H <sub>5</sub>	2-phenyleth-1-yl	-CH <sub>2</sub> CH(CH <sub>3</sub> )-

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
524	C <sub>2</sub> H <sub>5</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
525	C <sub>2</sub> H <sub>5</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH(CH <sub>3</sub> )-
526	C <sub>2</sub> H <sub>5</sub>	CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
527	C <sub>2</sub> H <sub>5</sub>	C <sub>2</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
528	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
529	C <sub>2</sub> H <sub>5</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
530	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
531	C <sub>2</sub> H <sub>5</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
532	C <sub>2</sub> H <sub>5</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
533	C <sub>2</sub> H <sub>5</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
534	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
535	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
536	C <sub>2</sub> H <sub>5</sub>	cyclopentyl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
537	C <sub>2</sub> H <sub>5</sub>	cyclohexyl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
538	C <sub>2</sub> H <sub>5</sub>	allyl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
539	C <sub>2</sub> H <sub>5</sub>	but-2-en-1-yl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
540	C <sub>2</sub> H <sub>5</sub>	4-chlorobut-2-en-1-yl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
541	C <sub>2</sub> H <sub>5</sub>	propargyl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
542	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
543	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
544	C <sub>2</sub> H <sub>5</sub>	2-phenyleth-1-yl	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
545	C <sub>2</sub> H <sub>5</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
546	C <sub>2</sub> H <sub>5</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )CH(CH <sub>3</sub> )-
547	C <sub>2</sub> H <sub>5</sub>	CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
548	C <sub>2</sub> H <sub>5</sub>	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
549	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
550	C <sub>2</sub> H <sub>5</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
551	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
552	C <sub>2</sub> H <sub>5</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
553	C <sub>2</sub> H <sub>5</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
554	C <sub>2</sub> H <sub>5</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
555	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
556	C <sub>2</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
557	C <sub>2</sub> H <sub>5</sub>	cyclopentyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
558	C <sub>2</sub> H <sub>5</sub>	cyclohexyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
559	C <sub>2</sub> H <sub>5</sub>	allyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
560	C <sub>2</sub> H <sub>5</sub>	but-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
561	C <sub>2</sub> H <sub>5</sub>	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
562	C <sub>2</sub> H <sub>5</sub>	propargyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
563	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
564	C <sub>2</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
565	C <sub>2</sub> H <sub>5</sub>	2-phenyleth-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
566	C <sub>2</sub> H <sub>5</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
567	C <sub>2</sub> H <sub>5</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
568	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	-CH <sub>2</sub> -
569	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> -
570	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
571	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> -
572	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
573	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> -
574	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> -
575	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> -
576	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
577	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
578	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	cyclopentyl	-CH <sub>2</sub> -
579	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	cyclohexyl	-CH <sub>2</sub> -
580	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	allyl	-CH <sub>2</sub> -
581	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	but-2-en-1-yl	-CH <sub>2</sub> -
582	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> -
583	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	propargyl	-CH <sub>2</sub> -
584	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> -
585	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> -
586	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	2-phenyleth-1-yl	-CH <sub>2</sub> -
587	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> -
588	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> -
589	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
590	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	C <sub>2</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )-
591	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
592	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH(CH <sub>3</sub> )-
593	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
594	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )-
595	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )-
596	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH(CH <sub>3</sub> )-
597	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
598	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
599	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	cyclopentyl	-CH(CH <sub>3</sub> )-

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
600	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	cyclohexyl	-CH(CH <sub>3</sub> )-
601	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	allyl	-CH(CH <sub>3</sub> )-
602	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	but-2-en-1-yl	-CH(CH <sub>3</sub> )-
603	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	4-chlorobut-2-en-1-yl	-CH(CH <sub>3</sub> )-
604	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	propargyl	-CH(CH <sub>3</sub> )-
605	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )-
606	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH(CH <sub>3</sub> )-
607	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	2-phenyleth-1-yl	-CH(CH <sub>3</sub> )-
608	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )-
609	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )-
610	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
611	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
612	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
613	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
614	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
615	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
616	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
617	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
618	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
619	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
620	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	cyclopentyl	-CH <sub>2</sub> CH <sub>2</sub> -
621	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	cyclohexyl	-CH <sub>2</sub> CH <sub>2</sub> -
622	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	allyl	-CH <sub>2</sub> CH <sub>2</sub> -
623	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	but-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
624	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
625	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	propargyl	-CH <sub>2</sub> CH <sub>2</sub> -
626	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
627	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
628	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	2-phenyleth-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
629	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
630	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
631	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
632	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
633	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
634	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
635	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
636	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
637	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
638	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
639	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
640	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
641	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	cyclopentyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
642	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	cyclohexyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
643	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	allyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
644	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	but-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
645	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
646	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	propargyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
647	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
648	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
649	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	2-phenyleth-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
650	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
651	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
652	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>3</sub>	-CH <sub>2</sub> -
653	CH(CH <sub>3</sub> ) <sub>2</sub>	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> -
654	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
655	CH(CH <sub>3</sub> ) <sub>2</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> -
656	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
657	CH(CH <sub>3</sub> ) <sub>2</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> -
658	CH(CH <sub>3</sub> ) <sub>2</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> -
659	CH(CH <sub>3</sub> ) <sub>2</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> -
660	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
661	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
662	CH(CH <sub>3</sub> ) <sub>2</sub>	cyclopentyl	-CH <sub>2</sub> -
663	CH(CH <sub>3</sub> ) <sub>2</sub>	cyclohexyl	-CH <sub>2</sub> -
664	CH(CH <sub>3</sub> ) <sub>2</sub>	allyl	-CH <sub>2</sub> -
665	CH(CH <sub>3</sub> ) <sub>2</sub>	but-2-en-1-yl	-CH <sub>2</sub> -
666	CH(CH <sub>3</sub> ) <sub>2</sub>	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> -
667	CH(CH <sub>3</sub> ) <sub>2</sub>	propargyl	-CH <sub>2</sub> -
668	CH(CH <sub>3</sub> ) <sub>2</sub>	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> -
669	CH(CH <sub>3</sub> ) <sub>2</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> -
670	CH(CH <sub>3</sub> ) <sub>2</sub>	2-phenyleth-1-yl	-CH <sub>2</sub> -
671	CH(CH <sub>3</sub> ) <sub>2</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> -
672	CH(CH <sub>3</sub> ) <sub>2</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> -
673	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
674	CH(CH <sub>3</sub> ) <sub>2</sub>	C <sub>2</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )-
675	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
676	CH(CH <sub>3</sub> ) <sub>2</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH(CH <sub>3</sub> )-
677	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
678	CH(CH <sub>3</sub> ) <sub>2</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )-
679	CH(CH <sub>3</sub> ) <sub>2</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )-
680	CH(CH <sub>3</sub> ) <sub>2</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH(CH <sub>3</sub> )-
681	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
682	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
683	CH(CH <sub>3</sub> ) <sub>2</sub>	cyclopentyl	-CH(CH <sub>3</sub> )-
684	CH(CH <sub>3</sub> ) <sub>2</sub>	cyclohexyl	-CH(CH <sub>3</sub> )-
685	CH(CH <sub>3</sub> ) <sub>2</sub>	allyl	-CH(CH <sub>3</sub> )-
686	CH(CH <sub>3</sub> ) <sub>2</sub>	but-2-en-1-yl	-CH(CH <sub>3</sub> )-
687	CH(CH <sub>3</sub> ) <sub>2</sub>	4-chlorobut-2-en-1-yl	-CH(CH <sub>3</sub> )-
688	CH(CH <sub>3</sub> ) <sub>2</sub>	propargyl	-CH(CH <sub>3</sub> )-
689	CH(CH <sub>3</sub> ) <sub>2</sub>	C <sub>6</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )-
690	CH(CH <sub>3</sub> ) <sub>2</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH(CH <sub>3</sub> )-
691	CH(CH <sub>3</sub> ) <sub>2</sub>	2-phenyleth-1-yl	-CH(CH <sub>3</sub> )-
692	CH(CH <sub>3</sub> ) <sub>2</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )-
693	CH(CH <sub>3</sub> ) <sub>2</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )-
694	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
695	CH(CH <sub>3</sub> ) <sub>2</sub>	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
696	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
697	CH(CH <sub>3</sub> ) <sub>2</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
698	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
699	CH(CH <sub>3</sub> ) <sub>2</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
700	CH(CH <sub>3</sub> ) <sub>2</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
701	CH(CH <sub>3</sub> ) <sub>2</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
702	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
703	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
704	CH(CH <sub>3</sub> ) <sub>2</sub>	cyclopentyl	-CH <sub>2</sub> CH <sub>2</sub> -
705	CH(CH <sub>3</sub> ) <sub>2</sub>	cyclohexyl	-CH <sub>2</sub> CH <sub>2</sub> -
706	CH(CH <sub>3</sub> ) <sub>2</sub>	allyl	-CH <sub>2</sub> CH <sub>2</sub> -
707	CH(CH <sub>3</sub> ) <sub>2</sub>	but-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
708	CH(CH <sub>3</sub> ) <sub>2</sub>	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
709	CH(CH <sub>3</sub> ) <sub>2</sub>	propargyl	-CH <sub>2</sub> CH <sub>2</sub> -
710	CH(CH <sub>3</sub> ) <sub>2</sub>	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
711	CH(CH <sub>3</sub> ) <sub>2</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
712	CH(CH <sub>3</sub> ) <sub>2</sub>	2-phenyleth-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
713	CH(CH <sub>3</sub> ) <sub>2</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> -

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
714	CH(CH <sub>3</sub> ) <sub>2</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
715	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
716	CH(CH <sub>3</sub> ) <sub>2</sub>	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
717	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
718	CH(CH <sub>3</sub> ) <sub>2</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
719	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
720	CH(CH <sub>3</sub> ) <sub>2</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
721	CH(CH <sub>3</sub> ) <sub>2</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
722	CH(CH <sub>3</sub> ) <sub>2</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
723	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
724	CH(CH <sub>3</sub> ) <sub>2</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
725	CH(CH <sub>3</sub> ) <sub>2</sub>	cyclopentyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
726	CH(CH <sub>3</sub> ) <sub>2</sub>	cyclohexyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
727	CH(CH <sub>3</sub> ) <sub>2</sub>	allyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
728	CH(CH <sub>3</sub> ) <sub>2</sub>	but-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
729	CH(CH <sub>3</sub> ) <sub>2</sub>	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
730	CH(CH <sub>3</sub> ) <sub>2</sub>	propargyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
731	CH(CH <sub>3</sub> ) <sub>2</sub>	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
732	CH(CH <sub>3</sub> ) <sub>2</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
733	CH(CH <sub>3</sub> ) <sub>2</sub>	2-phenyleth-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
734	CH(CH <sub>3</sub> ) <sub>2</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
735	CH(CH <sub>3</sub> ) <sub>2</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
736	C <sub>6</sub> H <sub>5</sub>	CH <sub>3</sub>	-CH <sub>2</sub> -
737	C <sub>6</sub> H <sub>5</sub>	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> -
738	C <sub>6</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
739	C <sub>6</sub> H <sub>5</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> -
740	C <sub>6</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
741	C <sub>6</sub> H <sub>5</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> -
742	C <sub>6</sub> H <sub>5</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> -
743	C <sub>6</sub> H <sub>5</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> -
744	C <sub>6</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
745	C <sub>6</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> -
746	C <sub>6</sub> H <sub>5</sub>	cyclopentyl	-CH <sub>2</sub> -
747	C <sub>6</sub> H <sub>5</sub>	cyclohexyl	-CH <sub>2</sub> -
748	C <sub>6</sub> H <sub>5</sub>	allyl	-CH <sub>2</sub> -
749	C <sub>6</sub> H <sub>5</sub>	but-2-en-1-yl	-CH <sub>2</sub> -
750	C <sub>6</sub> H <sub>5</sub>	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> -
751	C <sub>6</sub> H <sub>5</sub>	propargyl	-CH <sub>2</sub> -

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
752	C <sub>6</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> -
753	C <sub>6</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> -
754	C <sub>6</sub> H <sub>5</sub>	2-phenyleth-1-yl	-CH <sub>2</sub> -
755	C <sub>6</sub> H <sub>5</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> -
756	C <sub>6</sub> H <sub>5</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> -
757	C <sub>6</sub> H <sub>5</sub>	CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
758	C <sub>6</sub> H <sub>5</sub>	C <sub>2</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )-
759	C <sub>6</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
760	C <sub>6</sub> H <sub>5</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH(CH <sub>3</sub> )-
761	C <sub>6</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
762	C <sub>6</sub> H <sub>5</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )-
763	C <sub>6</sub> H <sub>5</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH(CH <sub>3</sub> )-
764	C <sub>6</sub> H <sub>5</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH(CH <sub>3</sub> )-
765	C <sub>6</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
766	C <sub>6</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH(CH <sub>3</sub> )-
767	C <sub>6</sub> H <sub>5</sub>	cyclopentyl	-CH(CH <sub>3</sub> )-
768	C <sub>6</sub> H <sub>5</sub>	cyclohexyl	-CH(CH <sub>3</sub> )-
769	C <sub>6</sub> H <sub>5</sub>	allyl	-CH(CH <sub>3</sub> )-
770	C <sub>6</sub> H <sub>5</sub>	but-2-en-1-yl	-CH(CH <sub>3</sub> )-
771	C <sub>6</sub> H <sub>5</sub>	4-chlorobut-2-en-1-yl	-CH(CH <sub>3</sub> )-
772	C <sub>6</sub> H <sub>5</sub>	propargyl	-CH(CH <sub>3</sub> )-
773	C <sub>6</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub>	-CH(CH <sub>3</sub> )-
774	C <sub>6</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH(CH <sub>3</sub> )-
775	C <sub>6</sub> H <sub>5</sub>	2-phenyleth-1-yl	-CH(CH <sub>3</sub> )-
776	C <sub>6</sub> H <sub>5</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )-
777	C <sub>6</sub> H <sub>5</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH(CH <sub>3</sub> )-
778	C <sub>6</sub> H <sub>5</sub>	CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
779	C <sub>6</sub> H <sub>5</sub>	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
780	C <sub>6</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
781	C <sub>6</sub> H <sub>5</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
782	C <sub>6</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
783	C <sub>6</sub> H <sub>5</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
784	C <sub>6</sub> H <sub>5</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
785	C <sub>6</sub> H <sub>5</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
786	C <sub>6</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
787	C <sub>6</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
788	C <sub>6</sub> H <sub>5</sub>	cyclopentyl	-CH <sub>2</sub> CH <sub>2</sub> -
789	C <sub>6</sub> H <sub>5</sub>	cyclohexyl	-CH <sub>2</sub> CH <sub>2</sub> -

No.	R <sup>5</sup>	R <sup>6</sup>	(C(R <sup>3m</sup> )(R <sup>4m</sup> )) <sub>m</sub>
790	C <sub>6</sub> H <sub>5</sub>	allyl	-CH <sub>2</sub> CH <sub>2</sub> -
791	C <sub>6</sub> H <sub>5</sub>	but-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
792	C <sub>6</sub> H <sub>5</sub>	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
793	C <sub>6</sub> H <sub>5</sub>	propargyl	-CH <sub>2</sub> CH <sub>2</sub> -
794	C <sub>6</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
795	C <sub>6</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
796	C <sub>6</sub> H <sub>5</sub>	2-phenyleth-1-yl	-CH <sub>2</sub> CH <sub>2</sub> -
797	C <sub>6</sub> H <sub>5</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
798	C <sub>6</sub> H <sub>5</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> -
799	C <sub>6</sub> H <sub>5</sub>	CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
800	C <sub>6</sub> H <sub>5</sub>	C <sub>2</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
801	C <sub>6</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
802	C <sub>6</sub> H <sub>5</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
803	C <sub>6</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
804	C <sub>6</sub> H <sub>5</sub>	i-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
805	C <sub>6</sub> H <sub>5</sub>	s-C <sub>4</sub> H <sub>9</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
806	C <sub>6</sub> H <sub>5</sub>	C(CH <sub>3</sub> ) <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
807	C <sub>6</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
808	C <sub>6</sub> H <sub>5</sub>	CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> CH <sub>3</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
809	C <sub>6</sub> H <sub>5</sub>	cyclopentyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
810	C <sub>6</sub> H <sub>5</sub>	cyclohexyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
811	C <sub>6</sub> H <sub>5</sub>	allyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
812	C <sub>6</sub> H <sub>5</sub>	but-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
813	C <sub>6</sub> H <sub>5</sub>	4-chlorobut-2-en-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
814	C <sub>6</sub> H <sub>5</sub>	propargyl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
815	C <sub>6</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
816	C <sub>6</sub> H <sub>5</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
817	C <sub>6</sub> H <sub>5</sub>	2-phenyleth-1-yl	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
818	C <sub>6</sub> H <sub>5</sub>	4-Cl-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -
819	C <sub>6</sub> H <sub>5</sub>	4-F-C <sub>6</sub> H <sub>4</sub>	-CH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub> -

s-C<sub>4</sub>H<sub>9</sub>: -CH(CH<sub>3</sub>)(C<sub>2</sub>H<sub>5</sub>);

i-C<sub>4</sub>H<sub>9</sub>: CH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>;

allyl: -CH<sub>2</sub>CH=CH<sub>2</sub>;

propargyl: -CH<sub>2</sub>C≡CH;

Table 1:

Compounds of the formula IA, in which A is 2-chlorophenyl and R<sup>5</sup>, R<sup>6</sup> and

(C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

Table 2:

5

Compounds of the formula IA, in which A is 2-trifluoromethylphenyl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

10 Table 3:

Compounds of the formula IA, in which A is 2-difluoromethylphenyl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

15

Table 4:

Compounds of the formula IA, in which A is 2-methylphenyl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of

20 table A.

Table 5:

Compounds of the formula IA, in which A is 2-chloropyridin-3-yl and R<sup>5</sup>, R<sup>6</sup> and

25 (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

Table 6:

30 Compounds of the formula IA, in which A is 2-trifluoromethylpyridin-3-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

Table 7:

35

Compounds of the formula IA, in which A is 2-difluoromethylpyridin-3-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

40 Table 8:

Compounds of the formula IA, in which A is 2-methylpyridin-3-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

5

Table 9:

Compounds of the formula IA, in which A is 4-methylpyrimidin-5-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

10

Table 10:

Compounds of the formula IA, in which A is 4-trifluoromethylpyrimidin-5-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

Table 11:

20 Compounds of the formula IA, in which A is 4-difluoromethylpyrimidin-5-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

Table 12:

25

Compounds of the formula IA, in which A is 1-methyl-3-trifluoromethylpyrazol-4-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

Table 13:

30

Compounds of the formula IA, in which A is 1-methyl-3-difluoromethylpyrazol-4-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

35 Table 14:

Compounds of the formula IA, in which A is 1,3-dimethylpyrazol-4-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

## Table 15:

5 Compounds of the formula IA, in which A is 1-methyl-3-trifluoromethyl-5-fluoropyrazol-4-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

## Table 16:

10 Compounds of the formula IA, in which A is 1-methyl-3-difluoromethyl-5-fluoropyrazol-4-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

## Table 17:

15 Compounds of the formula IA, in which A is 1-methyl-3-trifluoromethyl-5-chloropyrazol-4-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

## 20 Table 18:

Compounds of the formula IA, in which A is 1-methyl-3-trifluoromethylpyrol-4-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

25

## Table 19:

Compounds of the formula IA, in which A is 1-methyl-3-difluoromethylpyrol-4-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

## Table 20:

35 Compounds of the formula IA, in which A is 2-methyl-4-trifluoromethylthiazol-5-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

## Table 21:

40 Compounds of the formula IA, in which A is 2-methyl-4-difluoromethylthiazol-5-yl and

$R^5$ ,  $R^6$  and  $(C(R^{3m})(R^{4m}))_m$  for each individual compound correspond in each case to one row of table A.

Table 22:

5

Compounds of the formula IA, in which A is 2,4-dimethylthiazol-5-yl and  $R^5$ ,  $R^6$  and  $(C(R^{3m})(R^{4m}))_m$  for each individual compound correspond in each case to one row of table A.

10 Table 23:

Compounds of the formula IA, in which A is 2-methyl-5-trifluoromethylthiazol-4-yl and  $R^5$ ,  $R^6$  and  $(C(R^{3m})(R^{4m}))_m$  for each individual compound correspond in each case to one row of table A.

15

Table 24:

Compounds of the formula IA, in which A is 2-methyl-5-difluoromethylthiazol-4-yl and  $R^5$ ,  $R^6$  and  $(C(R^{3m})(R^{4m}))_m$  for each individual compound correspond in each case to one row of table A.

Table 25:

Compounds of the formula IA, in which A is 2,5-dimethylthiazol-4-yl and  $R^5$ ,  $R^6$  and  $(C(R^{3m})(R^{4m}))_m$  for each individual compound correspond in each case to one row of table A.

Table 26:

30 Compounds of the formula IA, in which A is 2-methyl-4-trifluoromethyloxazol-5-yl and  $R^5$ ,  $R^6$  and  $(C(R^{3m})(R^{4m}))_m$  for each individual compound correspond in each case to one row of table A.

Table 27:

35

Compounds of the formula IA, in which A is 2-methyl-4-difluoromethyloxazol-5-yl and  $R^5$ ,  $R^6$  and  $(C(R^{3m})(R^{4m}))_m$  for each individual compound correspond in each case to one row of table A.

40 Table 28:

Compounds of the formula IA, in which A is 2,4-dimethyloxazol-5-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

5

Table 29:

Compounds of the formula IA, in which A is 2-trifluoromethylthiophen-3-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

10

Table 30:

Compounds of the formula IA, in which A is 5-methyl-2-trifluoromethylthiophen-3-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

15

Table 31:

Compounds of the formula IA, in which A is 2-methylthiophen-3-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

20

Table 32:

25

Compounds of the formula IA, in which A is 2,5-dimethylthiophen-3-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

30

Table 33:

Compounds of the formula IA, in which A is 3-trifluoromethylthiophen-2-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

35

Table 34:

40

Compounds of the formula IA, in which A is 3-methylthiophen-2-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

## Table 35:

Compounds of the formula IA, in which A is 3,5-dimethylthiophen-2-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

## Table 36:

10 Compounds of the formula IA, in which A is 5-methyl-3-trifluoromethylthiophen-2-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

## Table 37:

15 Compounds of the formula IA, in which A is 2-trifluoromethyfuran-3-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

## Table 38:

Compounds of the formula IA, in which A is 5-methyl-2-trifluoromethyfuran-3-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

25

## Table 39:

Compounds of the formula IA, in which A is 2-methylfuran-3-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

## Table 40:

Compounds of the formula IA, in which A is 2,5-dimethylfuran-3-yl and R<sup>5</sup>, R<sup>6</sup> and (C(R<sup>3m</sup>)(R<sup>4m</sup>))<sub>m</sub> for each individual compound correspond in each case to one row of table A.

## Table 41:

40 Compounds of the formula IA, in which A is 2-methyl-5,6-dihydro[1,4]oxathiin-3-yl and

$R^5$ ,  $R^6$  and  $(C(R^{3m})(R^{4m}))_m$  for each individual compound correspond in each case to one row of table A.

Table 42:

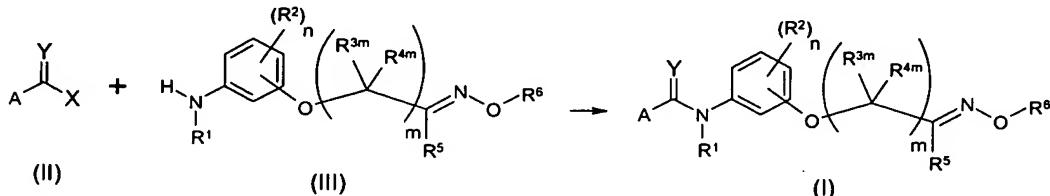
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Compounds of the formula IA, in which A is 2-methyl-5,6-dihydro-4H-thiopyran-3-yl and  $R^5$ ,  $R^6$  and  $(C(R^{3m})(R^{4m}))_m$  for each individual compound correspond in each case to one row of table A.

10 The compounds of the formula I according to the invention can be prepared analogously to processes known per se from the prior art, for example in accordance with scheme 1 by reacting activated (heterocycl)carboxylic acid derivatives II with an aniline III [Houben-Weyl: "Methoden der organ. Chemie" [Methods of organic chemistry], Georg-Thieme-Verlag, Stuttgart, New York, 1985, Volume E5, pp. 941-1045]. Activated carboxylic acid derivatives II are, for example, halides, activated esters, anhydrides, azides, e.g. chlorides, fluorides, bromides, para-nitrophenyl esters, pentafluorophenyl esters, N-hydroxysuccinimide esters, hydroxybenzotriazol-1-yl esters. In scheme 1, the radicals A, Y,  $R^1$ ,  $R^2$ ,  $R^{3m}$ ,  $R^{4m}$ ,  $R^5$ ,  $R^6$ , n and m have the meanings given above, in particular the meanings mentioned as being preferred.

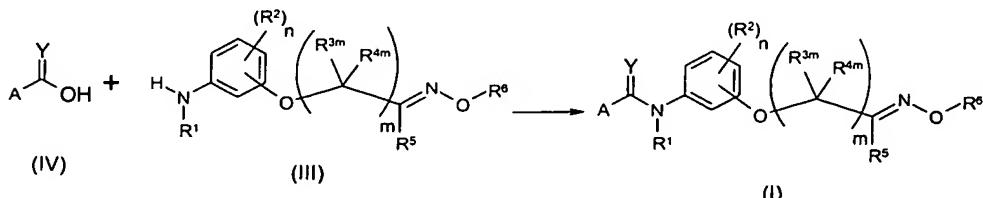
15 20

Scheme 1:



25 The active compounds I can also be prepared, for example, by reacting the acids IV with an aniline III in the presence of a coupling agent in accordance with scheme 2. In scheme 2, the radicals A, Y,  $R^1$ ,  $R^2$ ,  $R^{3m}$ ,  $R^{4m}$ ,  $R^5$ ,  $R^6$ , n and m have the meanings mentioned above and in particular the meanings mentioned as being preferred.

Scheme 2:



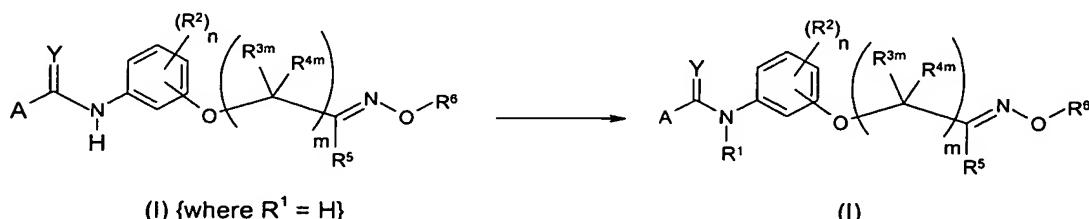
30

Suitable coupling agents are, for example:

- coupling agents based on carbodiimide, for example N,N'-dicyclohexylcarbodiimide [J.C. Sheehan, G.P. Hess, J. Am. Chem. Soc. 1955, 77, 1067], N-(3-dimethylaminopropyl)-N'-ethylcarbodiimide;
- 5 - coupling agents which form mixed anhydrides with carbonic esters, for example 2-ethoxy-1-ethoxycarbonyl-1,2-dihydroquinoline [B. Belleau, G. Malek, J. Amer. Chem. Soc. 1968, 90, 1651.], 2-isobutoxy-1-isobutoxycarbonyl-1,2-dihydroquinoline [Y. Kiso, H. Yajima, J. Chem. Soc., Chem. Commun. 1972, 942.];
- 10 - phosphonium-based coupling agents, for example (benzotriazol-1-yloxy)-tris(dimethylamino)phosphonium hexafluorophosphate [B. Castro, J.R. Domoy, G. Evin, C. Selve, Tetrahedron Lett. 1975, 14, 1219.], (benzotriazol-1-yloxy)tripyrrolidinophosphonium hexafluorophosphate [J. Coste et.al., Tetrahedron Lett. 1990, 31, 205.];
- 15 - uronium-based coupling agents or coupling agents having a guanidinium N-oxide structure, for example N,N,N',N'-tetramethyl-O-(1H-benzotriazol-1-yl)-uronium hexafluorophosphate [R. Knorr, A. Trzeciak, W. Bannwarth, D. Gillessen, Tetrahedron Lett. 1989, 30, 1927. ], N,N,N',N'-tetramethyl-O-(benzotriazol-1-yl)uronium tetrafluoroborate, (benzotriazol-1-yloxy)-dipiperidinocarbenium hexafluorophosphate [S. Chen, J. Xu, Tetrahedron Lett. 1992, 33, 647.];
- 20 - coupling agents which form acid chlorides, for example bis(2-oxo-3-oxazolidinyl)-phosphinic chloride [J. Diago-Mesequer, Synthesis 1980, 547.].

Compounds I where R<sup>1</sup> = unsubstituted or halogen-substituted alkyl or unsubstituted or substituted cycloalkyl can also be prepared by alkylating the amides I (where R<sup>1</sup> is hydrogen and which are obtainable in accordance with scheme 1 or 2) with suitable alkylating agents in the presence of bases, see scheme 3.

**Scheme 3:**



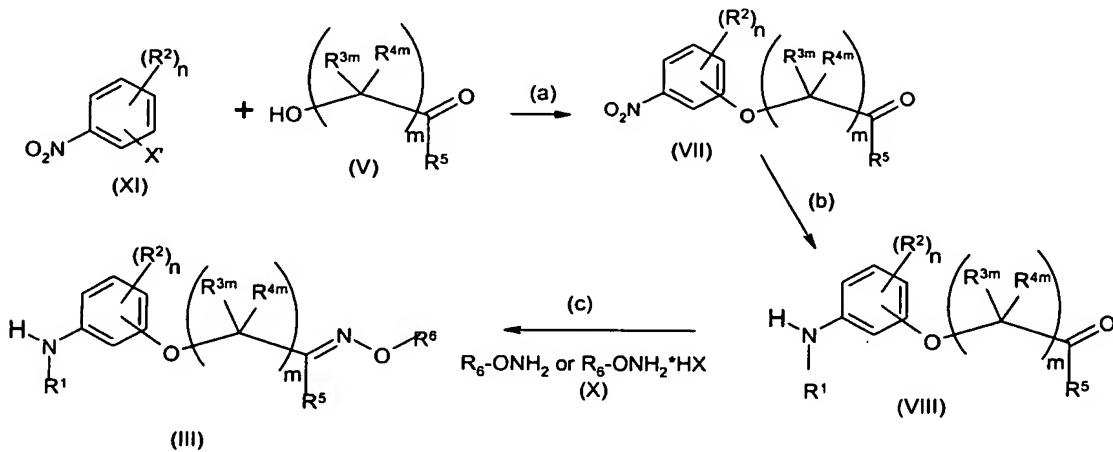
The (heterocyclyl)carboxylic acids IV can be prepared by processes known from the literature, and the (heterocyclyl)carboxylic acid derivatives II are preparable from these compounds by processes known from the literature [for example EP 0589313, EP 915868, US 4,877,441].

The anilines III can be prepared, for example, in accordance with scheme 4. In

scheme 4, the radicals R<sup>1</sup>, R<sup>2</sup>, R<sup>3m</sup>, R<sup>4m</sup>, R<sup>5</sup>, R<sup>6</sup>, n and m have the meanings given above, in particular the meanings mentioned as being preferred. The compounds V and X are known from the literature or can be prepared by processes known from the literature.

5

Scheme 4:



In step a in scheme 4, the nitroaromatic compounds XI in which X' is a halide, for example chloride or fluoride, is reacted with a keto alcohol V in the sense of a nucleophilic aromatic substitution, giving the nitrophenyl ether VII. The reaction is carried out analogously to known processes, for example according to Organikum, 21st edition, Wiley-VCH 2001, p. 394ff; S. Raeppel, F. Raeppel, J. Suffert; *Synlett* [SYNLES] 1998, (7), 794-796. R. Beugelmans, A. Bigot, J. Zhu; *Tetrahedron Lett* [TELEAY] 1994, 35 (31), 5649-5652. The reaction is usually carried out in the presence of a base. Suitable bases are alkali metal carbonates, alkaline earth metal carbonates, such as sodium carbonate, potassium carbonate, calcium carbonate, magnesium carbonate, alkali metal hydroxides or alkaline earth metal hydroxides, such as sodium hydroxide or potassium hydroxide. In general, the reaction is carried out in an inert organic solvent. Suitable solvents are ethers, such as diethyl ether, methyl tert-butyl ether, dioxane, tetrahydrofuran, ethylene glycol dimethyl ether, diethylene glycol.

In step b, the nitrophenyl ether VII is reduced to the aminophenyl ether VIII, for example as described in Organikum, 21st edition, Wiley-VCH 2001, p. 627ff. The catalytic reduction of the nitro group of the nitrophenyl ether VII is generally carried out using hydrazine as hydrogen source, and in the presence of Raney-nickel as catalyst. The reduction is generally carried out in an inert solvent, for example in a C<sub>1</sub>-C<sub>4</sub>-alcohol, such as methanol or ethanol. The reduction of the nitrophenyl ether VII to the aminophenyl ether VIII can be carried out, for example, by reacting the nitrophenyl ether VII with a metal compound, such as tin(II) chloroide, under acid reaction.

conditions, such as concentrated hydrochloric acid.

In step c, the aminophenyl ether VIII is reacted with a hydroxylamine X or the acid addition salt thereof, preferably the hydrochloride salt. The reaction is generally carried

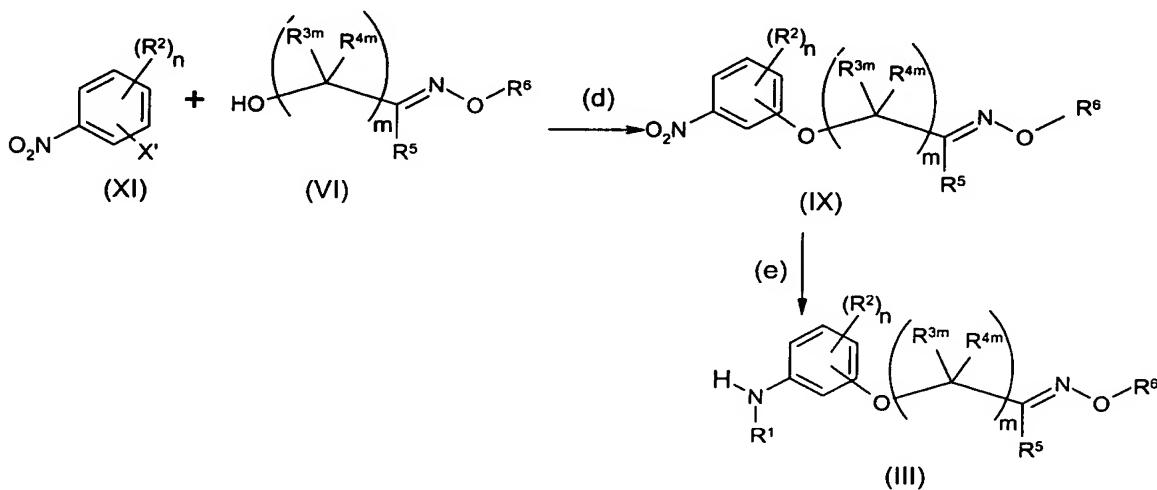
5 out in a solvent. Suitable solvents are, for example, C<sub>1</sub>-C<sub>4</sub>-alcohols or C<sub>1</sub>-C<sub>4</sub>-alcohol/water mixtures. The reaction can be carried out in the presence of a base. Suitable bases are aromatic amines, such as pyridine, or alkali metal hydroxides or alkaline earth metal hydroxides, such as sodium hydroxide, potassium hydroxide or calcium hydroxide. The oximation of the keto group in X can be carried out, for example,

10 analogously to Organikum, 21st edition, Wiley-VCH 2001, p. 467 or D. Dhaniak, C. Reese, S. Romana, G. Zappia, J. Chem. Soc. Chem. Comm. 1986 (12), 903-904, DE 3004871 or AU 580091.

Alternatively, the anilines III can also be prepared in accordance with scheme 5. In

15 scheme 5, the radicals R<sup>1</sup>, R<sup>2</sup>, R<sup>3m</sup>, R<sup>4m</sup>, R<sup>5</sup>, R<sup>6</sup>, X', n and m have the meanings given above and in particular the meanings given as being preferred.

Scheme 5:



20

Step d in scheme 5 is carried out analogously to step a in scheme 4. Step e in scheme 5 is carried out analogously to step b in scheme 4.

The oxime IX can also be obtained by reacting the nitrophenyl ether VII with the

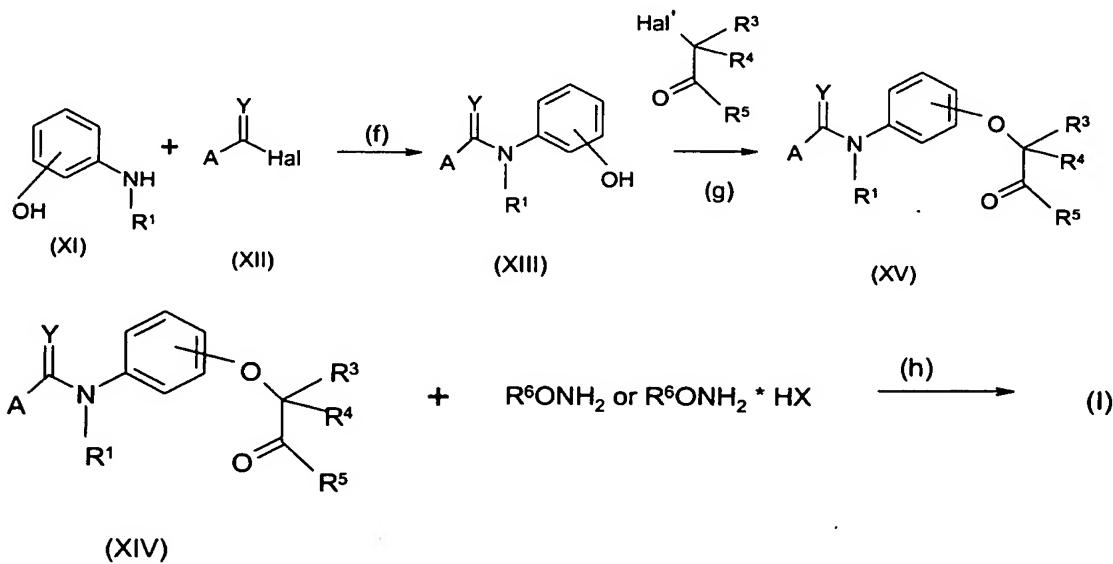
25 hydroxylamine X or the acid addition salt of X, analogously to the process described in step a of scheme 4.

The oxime VI can be obtained, for example, by reacting the keto alcohol V with the hydroxylamine X or the acid addition salt of X, analogously to the process described in

step a of scheme 4.

The compounds I according to the invention can also be prepared according to scheme 6. In scheme 6, the radicals A, Y, R<sup>1</sup>, R<sup>2</sup>, R<sup>3m</sup>, R<sup>4m</sup>, R<sup>5</sup>, R<sup>6</sup>, n and m have the meanings given above and in particular the meanings given as being preferred, Hal, Hal' are independently of one another halogen, for example chloride, bromide or iodide.

### Scheme 6:



In step f of scheme 6, the aminophenol XI is reacted with a (heterocyclil)carbonyl

halide XII, which affords the anilide XIII. The reaction is usually carried out in the presence of a base, for example a tertiary amine, such as trimethylamine or

presence of a base, for example a tertiary amine, such as trimethylamine or triethylamine. In general, the reaction is carried out in an inert organic solvent. Suitable solvents are, for example, ethers, such as diethyl ether, methyl tert-butyl ether, dioxane, tetrahydrofuran, ethylene glycol dimethyl ether, diethylene glycol or chlorinated hydrocarbons, such as dichloromethane, dichloroethane or trichloromethane.

20

The reaction of the anilide XIII with the ketone XIV in step g of scheme 6 can be carried out in the presence of a base. Suitable bases are alkali metal carbonates, alkaline earth metal carbonates, such as sodium carbonate, potassium carbonate, calcium carbonate, magnesium carbonate, alkali metal hydroxides or alkaline earth metal hydroxides, such as sodium hydroxide or potassium hydroxide. In general, the reaction is carried out in an inert organic solvent. Suitable solvents are, for example, carboxamides, such as N,N-dimethylformamide, diethylformamide or dimethylacetamide.

The conversion of the compound XIV into the compound I in step h of scheme 6 is carried out for example analogously to step c of scheme 4.

5 The compounds I are suitable for use as fungicides. They are distinguished by an outstanding effectiveness against a broad spectrum of phytopathogenic fungi, especially from the classes of the *Ascomycetes*, *Deuteromycetes*, *Phycomycetes* and *Basidiomycetes*. Some are systemically effective and they can be used in plant protection as foliar and soil fungicides.

10 They are particularly important in the control of a multitude of fungi on various cultivated plants, such as wheat, rye, barley, oats, rice, maize, grass, bananas, cotton, soya, coffee, sugar cane, vines, fruits and ornamental plants, and vegetables, such as cucumbers, beans, tomatoes, potatoes and cucurbits, and on the seeds of these

15 plants.

They are especially suitable for controlling the following plant diseases:

- Alternaria species on fruit and vegetables,
- Botrytis cinerea (gray mold) on strawberries, vegetables, ornamental plants and grapevines,
- Cercospora arachidicola on groundnuts,
- Erysiphe cichoracearum and Sphaerotheca fuliginea on cucurbits,
- Erysiphe graminis (powdery mildew) on cereals,
- Fusarium and Verticillium species on various plants,
- Heliomethosporium species on cereals,
- Mycosphaerella species on bananas and groundnuts,
- Phytophthora infestans on potatoes and tomatoes,
- Plasmopara viticola on grapevines,
- Podosphaera leucotricha on apples,
- Pseudocercosporella herpotrichoides on wheat and barley,
- Pseudoperonospora species on hops and cucumbers,
- Puccinia species on cereals,
- Pyricularia oryzae on rice,
- Rhizoctonia species on cotton, rice and lawns,
- Septoria nodorum on wheat,
- Sphaerotheca fuliginea (mildew of cucumber) on cucumbers,
- Uncinula necator on grapevines,
- Ustilago species on cereals and sugar cane,
- Venturia species (scab) on apples and pears,
- Septoria tritici,

- Pyrenophsora species,
- Leptosphaeria nodorum,
- Rhynchosporium species and
- Typhula species.

5

The compounds I are also suitable for controlling harmful fungi, such as *Paecilomyces variotii*, in the protection of materials (e.g. wood, paper, paint dispersions, fibers or fabrics) and in the protection of stored products.

- 10 The compounds I are employed by treating the fungi or the plants, seeds, materials or soil to be protected from fungal attack with a fungicidally effective amount of the active compounds. The application can be carried out both before and after the infection of the materials, plants or seeds by the fungi.
- 15 The fungicidal compositions generally comprise between 0.1 and 95%, preferably between 0.5 and 90%, by weight of active compound.

When employed in plant protection, the amounts applied are, depending on the kind of effect desired, between 0.01 and 2.0 kg of active compound per ha.

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In seed treatment, amounts of active compound of 0.001 to 0.1 g, preferably 0.01 to 0.05 g, per kilogram of seed are generally necessary.

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When used in the protection of materials or stored products, the amount of active compound applied depends on the kind of application area and on the effect desired. Amounts customarily applied in the protection of materials are, for example, 0.001 g to 2 kg, preferably 0.005 g to 1 kg, of active compound per cubic meter of treated material.

- 30 The compounds I can be converted to the usual formulations, e.g. solutions, emulsions, suspensions, dusts, powders, pastes and granules. The application form depends on the respective use intended; it should in any case guarantee a fine and uniform distribution of the compound according to the invention.
- 35 The formulations are prepared in a known way, e.g. by extending the active compound with solvents and/or carriers, if desired using emulsifiers and dispersants, it being possible, when water is the diluent, also to use other organic solvents as auxiliary solvents. Suitable auxiliaries for this purpose are essentially: solvents, such as aromatics (e.g. xylene), chlorinated aromatics (e.g. chlorobenzenes), paraffins (e.g. petroleum fractions), alcohols (e.g. methanol, butanol), ketones (e.g. cyclohexanone),
- 40

amines (e.g. ethanolamine, dimethylformamide) and water; carriers, such as ground natural minerals (e.g. kaolins, clays, talc, chalk) and ground synthetic ores (e.g. highly dispersed silicic acid, silicates); emulsifiers, such as nonionic and anionic emulsifiers (e.g. polyoxyethylene fatty alcohol ethers, alkylsulfonates and arylsulfonates) and dispersants, such as lignosulfite waste liquors and methylcellulose.

Suitable surfactants are alkali metal, alkaline earth metal and ammonium salts of lignosulfonic acid, naphthalenesulfonic acid, phenolsulfonic acid and dibutylnaphthalenesulfonic acid, alkylarylsulfonates, alkyl sulfates, alkylsulfonates, fatty alcohol sulfates and fatty acids, and alkali metal and alkaline earth metal salts thereof, salts of sulfated fatty alcohol glycol ethers, condensation products of sulfonated naphthalene and naphthalene derivatives with formaldehyde, condensation products of naphthalene or of naphthalenesulfonic acid with phenol and formaldehyde, polyoxyethylene octylphenol ethers, ethoxylated iso-octylphenol, octylphenol and nonylphenol, alkylphenol polyglycol ethers, tributylphenyl polyglycol ethers, alkylaryl polyether alcohols, isotridecyl alcohol, fatty alcohol ethylene oxide condensates, ethoxylated castor oil, polyoxyethylene alkyl ethers, ethoxylated polyoxypropylene, lauryl alcohol polyglycol ether acetal, sorbitol esters, lignosulfite waste liquors and methylcellulose.

Petroleum fractions having medium to high boiling points, such as kerosene or diesel fuel, furthermore coal tar oils, and oils of vegetable or animal origin, aliphatic, cyclic and aromatic hydrocarbons, e.g. benzene, toluene, xylene, paraffin, tetrahydronaphthalene, alkylated naphthalenes or derivatives thereof, methanol, ethanol, propanol, butanol, chloroform, carbon tetrachloride, cyclohexanol, cyclohexanone, chlorobenzene or isophorone, or highly polar solvents, e.g. dimethylformamide, dimethyl sulfoxide, N-methylpyrrolidone or water, are suitable for the preparation of directly sprayable solutions, emulsions, pastes or oil dispersions.

Powders, combinations for broadcasting and dusts can be prepared by mixing or mutually grinding the active substances with a solid carrier.

Granules, e.g. coated granules, impregnated granules and homogeneous granules, can be prepared by binding the active compounds to solid carriers. Solid carriers are, e.g., mineral earths, such as silica gel, silicic acids, silicates, talc, kaolin, attaclay, limestone, lime, chalk, bole, loess, clay, dolomite, diatomaceous earth, calcium sulfate, magnesium sulfate, magnesium oxide, ground synthetic materials, fertilizers, such as, e.g., ammonium sulfate, ammonium phosphate, ammonium nitrate or ureas, and plant products, such as cereal meal, tree bark meal, wood meal and nutshell meal, cellulose

powders and other solid carriers.

The formulations generally comprise between 0.01 and 95% by weight, preferably between 0.1 and 90% by weight, of the active compound. The active compounds are

5 employed therein in a purity of 90% to 100%, preferably 95% to 100% (according to the NMR spectrum).

Examples for formulations are:

10 I. 5 parts by weight of a compound according to the invention are intimately mixed with 95 parts by weight of finely divided kaolin. In this way, a dust comprising 5% by weight of the active compound is obtained.

15 II. 30 parts by weight of a compound according to the invention are intimately mixed with a mixture of 92 parts by weight of pulverulent silica gel and 8 parts by weight of liquid paraffin, which had been sprayed onto the surface of this silica gel. In this way, an active compound preparation with good adhesive properties (active compound content 23% by weight) is obtained.

20 III. 10 parts by weight of a compound according to the invention are dissolved in a mixture consisting of 90 parts by weight of xylene, 6 parts by weight of the addition product of 8 to 10 mol of ethylene oxide with 1 mol of the N-monoethanolamide of oleic acid, 2 parts by weight of the calcium salt of dodecylbenzenesulfonic acid and 2 parts by weight of the addition product of 40 mol of ethylene oxide with 1 mol of castor oil (active compound content 9% by weight).

25 IV. 20 parts by weight of a compound according to the invention are dissolved in a mixture consisting of 60 parts by weight of cyclohexanone, 30 parts by weight of isobutanol, 5 parts by weight of the addition product of 7 mol of ethylene oxide with 1 mol of isoocetylphenol and 5 parts by weight of the addition product of 40 mol of ethylene oxide with 1 mol of castor oil (active compound content 16% by weight).

30 V. 80 parts by weight of a compound according to the invention are intimately mixed with 3 parts by weight of the sodium salt of diisobutylnaphthalene- $\alpha$ -sulfonic acid, 10 parts by weight of the sodium salt of a lignosulfonic acid from a sulfite waste liquor and 7 parts by weight of pulverulent silica gel and are ground in a hammer mill (active compound content 80% by weight).

VI. 90 parts by weight of a compound according to the invention are mixed with 10 parts by weight of N-methyl- $\alpha$ -pyrrolidone and a solution is obtained which is suitable for use in the form of very small drops (active compound content 90% by weight).

5 VII. 20 parts by weight of a compound according to the invention are dissolved in a mixture consisting of 40 parts by weight of cyclohexanone, 30 parts by weight of isobutanol, 20 parts by weight of the adduct of 7 mol of ethylene oxide to 1 mol of isooctylphenol and 10 parts by weight of the adduct of 40 mol of ethylene oxide to 1 mol of castor oil. By running the solution into 100 000 parts by weight of water and finely dispersing it therein, an aqueous dispersion is obtained comprising 0.02% by weight of the active compound.

10 VIII. 20 parts by weight of a compound according to the invention are intimately mixed with 3 parts by weight of the sodium salt of diisobutylnaphthalene- $\alpha$ -sulfonic acid, 17 parts by weight of the sodium salt of a lignosulfonic acid from a sulfite waste liquor and 60 parts by weight of pulverulent silica gel and are ground in a hammer mill. A spray emulsion comprising 0.1% by weight of the active compound is obtained by fine dispersion of the mixture in 20 000 parts by weight of water.

15 IX. 10 parts by weight of the compound according to the invention are dissolved in 63 parts by weight of cyclohexanone, 27 parts by weight of dispersing agent (for example a mixture of 50 parts by weight of the adduct of 7 mol of ethylene oxide to 1 mol of isooctylphenol and 50 parts by weight of the adduct of 40 mol of ethylene oxide to 1 mol of castor oil). The stock solution is then diluted to the desired concentration, for example a concentration in the range from 1 to 20 100 ppm, by distribution in water.

25 The active compounds can be used as such, in the form of their formulations or of the application forms prepared therefrom, e.g. in the form of directly sprayable solutions, powders, suspensions or dispersions, emulsions, oil dispersions, pastes, dusts, compositions for broadcasting or granules, by spraying, atomizing, dusting, broadcasting or watering. The application forms depend entirely on the intended uses; they should in any case guarantee the finest possible dispersion of the active compounds according to the invention.

30 Aqueous application forms can be prepared from emulsion concentrates, pastes or wettable powders (spray powders, oil dispersions) by addition of water. To prepare emulsions, pastes or oil dispersions, the substances can be homogenized in water, as such or dissolved in an oil or solvent, by means of wetting agents, tackifiers,

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dispersants or emulsifiers. However, concentrates comprising active substance, wetting agent, tackifier, dispersant or emulsifier and possibly solvent or oil can also be prepared, which concentrates are suitable for dilution with water.

5 The concentrations of active compound in the ready-to-use preparations can be varied within relatively wide ranges. In general, they are between 0.0001 and 10%. Often even small amounts of active compound I are sufficient in the ready-to-use preparation, for example 2 to 200 ppm. Ready-to-use preparations with concentrations of active compound in the range from 0.01 to 1% are also preferred.

10 The active compounds can also be used with great success in the ultra low volume (ULV) process, it being possible to apply formulations with more than 95% by weight of active compound or even the active compound without additives.

15 Oils of various types, herbicides, fungicides, other pesticides and bactericides can be added to the active compounds, if need be also not until immediately before use (tank mix). These agents can be added to the compositions according to the invention in a weight ratio of 1:10 to 10:1.

20 The compositions according to the invention can, in the application form as fungicides, also be present together with other active compounds, e.g. with herbicides, insecticides, growth regulators, fungicides or also with fertilizers. On mixing the compounds I or the compositions comprising them in the application form as fungicides with other fungicides, in many cases an expansion of the fungicidal spectrum of activity is obtained.

25

The following list of fungicides, with which the compounds according to the invention can be used in conjunction, is intended to illustrate the possible combinations but does not limit them:

30

- sulfur, dithiocarbamates and their derivatives, such as iron(III) dimethyldithiocarbamate, zinc dimethyldithiocarbamate, zinc ethylenebisdithiocarbamate, manganese ethylenebisdithiocarbamate, manganese zinc ethylenediaminebis-dithiocarbamate, tetramethylthiuram disulfide, ammonia complex of zinc (N,N'-ethylenebisdithiocarbamate), ammonia complex of zinc (N,N'-propylenebisdithiocarbamate), zinc (N,N'-propylenebisdithiocarbamate) or N,N'-poly-propylenebis(thiocarbamoyl)disulfide;

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- nitro derivatives, such as dinitro(1-methylheptyl)phenyl crotonate, 2-sec-butyl-4,6-dinitrophenyl 3,3-dimethylacrylate, 2-sec-butyl-4,6-dinitrophenyl isopropyl carbonate or diisopropyl 5-nitroisophthalate;

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- heterocyclic substances, such as 2-heptadecyl-2-imidazoline acetate, 2,4-dichloro-6-(o-chloroanilino)-s-triazine, O,O-diethyl phthalimidophosphono-thioate, 5-amino-1-[bis(dimethylamino)phosphinyl]-3-phenyl-1,2,4-triazole, 2,3-dicyano-1,4-dithioanthraquinone, 2-thio-1,3-dithiolo[4,5-b]quinoxaline, methyl 1-(butylcarbamoyl)-2-benzimidazolecarbamate, 2-(methoxycarbonylamino)benz-imidazole, 2-(2-furyl)benzimidazole, 2-(4-thiazolyl)benzimidazole, N-(1,1,2,2-tetrachloroethylthio)tetrahydropthalimide, N-(trichloromethylthio)tetrahydropthalimide or N-(trichloromethylthio)phthalimide,
- N-dichlorofluoromethylthio-N',N'-dimethyl-N-phenylsulfdionic acid diamide, 5-ethoxy-3-trichloromethyl-1,2,3-thiadiazole, 2-thiocyanatomethylthiobenzothiazole, 1,4-dichloro-2,5-dimethoxybenzene, 4-(2-chlorophenylhydrazone)-3-methyl-5-isoxazolone, 2-thiopyridine 1-oxide, 8-hydroxyquinoline or its copper salt, 2,3-dihydro-5-carboxanilido-6-methyl-1,4-oxathiin, 2,3-dihydro-5-carboxanilido-6-methyl-1,4-oxathiin 4,4-dioxide, 2-methyl-5,6-dihydro-4H-pyran-3-carboxanilide, 2-methylfuran-3-carboxanilide, 2,5-dimethylfuran-3-carboxanilide, 2,4,5-trimethylfuran-3-carboxanilide, N-cyclohexyl-2,5-dimethylfuran-3-carboxamide, 2-methylbenzanilide, 2-iodobenzanilide, N-formyl-N-morpholine 2,2,2-trichloroethyl acetal, piperazine-1,4-diylbis-1-(2,2,2-trichloroethyl)formamide, 1-(3,4-dichloroanilino)-1-formyl-amino-2,2,2-trichloroethane, 2,6-dimethyl-N-tridecylmorpholine or its salts, 2,6-dimethyl-N-cyclododecylmorpholine or its salts, N-[3-(p-(tert-butyl)phenyl)-2-methylpropyl]-cis-2,6-dimethylmorpholine, N-[3-(p-(tert-butyl)phenyl)-2-methyl-propyl]piperidine, 1-[2-(2,4-dichlorophenyl)-4-ethyl-1,3-dioxolan-2-ylethyl]-1H-1,2,4-triazole, 1-[2-(2,4-dichlorophenyl)-4-(n-propyl)-1,3-dioxolan-2-ylethyl]-1H-1,2,4-triazole, N-(n-propyl)-N-(2,4,6-trichlorophenoxyethyl)-N"-imidazolylurea, 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanone, 1-(4-chlorophenoxy)-3,3-dimethyl-1-(1H-1,2,4-triazol-1-yl)-2-butanol, (2RS,3RS)-1-[3-(2-chlorophenyl)-2-(4-fluorophenyl)oxiran-2-ylmethyl]-1H-1,2,4-triazole,  $\alpha$ -(2-chlorophenyl)-  $\alpha$ -(4-chlorophenyl)-5-pyrimidine methanol,
- 5-butyl-2-dimethylamino-4-hydroxy-6-methylpyrimidine, bis(p-chlorophenyl)-3-pyridinemethanol, 1,2-bis(3-ethoxycarbonyl-2-thioureido)benzene or 1,2-bis(3-methoxycarbonyl-2-thioureido)benzene,
- strobilurins, such as methyl E-methoxyimino[ $\alpha$ -(o-tolyloxy)-o-tolyl]acetate, methyl E-2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl]-3-methoxyacrylate, methyl E-methoxyimino-[ $\alpha$ -(2-phenoxyphenyl)] acetamide, methyl E-methoxyimino-[ $\alpha$ -(2,5-dimethylphenoxy)-o-tolyl]acetamide,
- anilinopyrimidines, such as N-(4,6-dimethylpyrimidin-2-yl)aniline, N-[4-methyl-6-(1-propynyl)pyrimidin-2-yl]aniline or N-[4-methyl-6-cyclopropylpyrimidin-2-yl]-aniline,

- phenylpyrroles, such as 4-(2,2-difluoro-1,3-benzodioxol-4-yl)pyrrole-3-carbonitrile,
- cinnamamides, such as 3-(4-chlorophenyl)-3-(3,4-dimethoxyphenyl)acryloylmorpholine,

5     • and various fungicides, such as dodecylguanidine acetate, 3-[3-(3,5-dimethyl-2-oxycyclohexyl)-2-hydroxyethyl]glutarimide, hexachlorobenzene, methyl N-(2,6-dimethylphenyl)-N-(2-furoyl)-DL-alaninate, N-(2,6-dimethylphenyl)-N-(2'-methoxyacetyl)-DL-alanine methyl ester, N-(2,6-dimethylphenyl)-N-chloroacetyl-D,L-2-aminobutyrolactone, N-(2,6-dimethylphenyl)-N-(phenylacetyl)-DL-alanine methyl ester, 5-methyl-5-vinyl-3-(3,5-dichlorophenyl)-2,4-dioxo-1,3-oxazolidine, 3-(3,5-dichlorophenyl)-5-methyl-5-methoxymethyl-1,3-oxazolidine-2,4-dione, 3-(3,5-dichlorophenyl)-1-isopropylcarbamoylhydantoin, N-(3,5-dichlorophenyl)-1,2-dimethylcyclopropane-1,2-dicarboximide, 2-cyano-N-(ethylaminocarbonyl)-2-[methoxyimino]acetamide, 1-[2-(2,4-dichlorophenyl)pentyl]-1H-1,2,4-triazole, 15     2,4-difluoro- $\alpha$ -(1H-1,2,4-triazolyl-1-methyl)benzhydryl alcohol, N-(3-chloro-2,6-dinitro-4-trifluoromethylphenyl)-5-trifluoromethyl-3-chloro-2-aminopyridine, 1-((bis(4-fluorophenyl)methylsilyl)methyl)-1H-1,2,4-triazole.

Preparation examples:

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Example 1:

2-Chloro-N-(2-(2-benzyloxyimino-1-methyl-n-propoxy)phenyl)nicotinamide

25     1.1    2-Chloro-N-(2-hydroxyphenyl)nicotinamide

At 10°C, a solution of 21 g of 2-chloronicotinyl chloride in 100 ml of dichloromethane was added to a solution of 13.1 g of ortho-aminophenol and 24.2 g of triethylamine in 30     200 ml of dichloromethane, and the mixture was stirred at 10°C for 1 hour and at room temperature for 60 h. The reaction mixture was then concentrated under reduced pressure, and the resulting residue was taken up in ethyl acetate. The organic phase was washed twice with dil. hydrochloric acid and 3% strength aqueous sodium hydroxide solution. After drying over sodium sulfate, the solvent was evaporated under reduced pressure, giving 27.6 g of the title compound of melting point 142-145°C.

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1.2    2-Chloro-N-(2-(1-methyl-2-oxo-n-propoxy)phenyl)nicotinamide

40     A solution of 1.24 g of 2-chloro-N-(2-hydroxyphenyl)nicotinamide, 1.58 g of 3-bromobutan-2-one and 0.34 g of potassium carbonate in 20 ml of

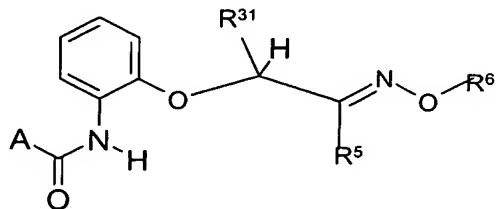
N,N-dimethylformamide was stirred at room temperature for 1 h and then at 60°C for 2 h. A mixture of water and ethyl acetate was then added, and the phases were separated. The aqueous phase was extracted twice with ethyl acetate. The combined organic phase was washed with saturated NaCl solution, dried over sodium sulfate and concentrated under reduced pressure. The resulting residue was purified chromatographically on silica gel (mobile phase: cyclohexane/methyl tert-butyl ether), giving, after evaporation of the eluent, 1.0 g of the title compound as an oil.

10 1.3 2-Chloro-N-(2-(2-benzyloxyimino-1-methyl-n-propoxy)phenyl)nicotinamide

0.18 g of O-Benzylhydroxylamine was added to a solution of 0.36 g of 2-chloro-N-(2-(1-methyl-2-oxo-n-propoxy)phenyl)nicotinamide and 0.12 g of pyridine in 10 ml of methanol. The mixture was concentrated at room temperature for 15 minutes, the solvent was evaporated under reduced pressure and the resulting residue was taken up in methyl tert-butyl ether. The mixture was washed with 1% strength hydrochloric acid and sat. NaCl solution and dried over sodium sulfate, and the mixture was concentrated under reduced pressure. The precipitated crystals were filtered off and dried under reduced pressure, giving 0.3 g of the title compound of melting point 53-55°C.

The compounds of the formula IA listed in table 43 were prepared in an analogous manner.

25 Table 43:



(IA) {where R<sup>1</sup> = H, n = 0 and R<sup>41</sup> = H}

No.	A	R <sup>31</sup>	R <sup>5</sup>	R <sup>6</sup>	m.p. [°C]; consistency	Spectroscopical data
IA-1	2-chloro-pyridin-3-yl	CH <sub>3</sub>	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	53-55	
IA-2	2-chloro-pyridin-3-yl	CH <sub>3</sub>	CH <sub>3</sub>	allyl	oil	<sup>1</sup> H-NMR (CDCl <sub>3</sub> ), δ [ppm]: 1.57 (d, 3H); 1.83 (s, 3H); 4.58 (m, 2H); 5.04 (m,

No.	A	R <sup>31</sup>	R <sup>5</sup>	R <sup>6</sup>	m.p. [°C]; consistency	Spectroscopical data
IA-2	2-chloro-pyridin-3-yl	CH <sub>3</sub>	CH <sub>3</sub>	allyl	oil	<sup>1</sup> H-NMR (CDCl <sub>3</sub> ), δ [ppm]: 1.57 (d, 3H); 1.83 (s, 3H); 4.58 (m, 2H); 5.04 (m, 1H); 5.18-5.31 (m, 2H); 5.93 (m, 1H); 6.99-7.10 (m, 3H); 7.22 (m, 1H); 8.18 (m, 1H); 8.51 (m, 1H); 9.22 (s <sub>broad</sub> , 1H).
IA-3	2-chloro-pyridin-3-yl	CH <sub>3</sub>	CH <sub>3</sub>	trans-2-buten-1-yl	oil	<sup>1</sup> H-NMR (CDCl <sub>3</sub> ), δ [ppm]: 1.57 (d, 3H); 1.70 (m, 3H); 1.80 (s, 3H); 4.49 (m, 2H); 5.02 (q, 1H); 5.58-5.80 (m, 2H); 6.99-7.10 (m, 3H); 7.22 (m, 1H); 8.16 (m, 1H); 8.51 (m, 2H); 9.20 (s <sub>broad</sub> , 1H).
IA-4	2-methyl-4-trifluoro-methyl-thiazol-5-yl	CH <sub>3</sub>	CH <sub>3</sub>	CH <sub>3</sub>	oil	<sup>1</sup> H-NMR (CDCl <sub>3</sub> ), δ [ppm]: 1.52 (d, 3H); 1.77 (s, 3H); 2.79 (s, 3H); 3.90 (s, 3H); 5.01 (q, 1H); 6.93-7.11 (m, 4H); 8.43 (m, 1H); 8.70 (m, 1H).
IA-5	2-methyl-4-trifluoro-methyl-thiazol-5-yl	CH <sub>3</sub>	CH <sub>3</sub>	trans-3-chloroallyl	oil	<sup>1</sup> H-NMR (CDCl <sub>3</sub> ), δ [ppm]: 1.53 (d, 3H); 1.77 (s, 3H); 2.75 (s, 3H); 4.53 (d, 2H); 5.01 (q, 1H); 6.07 (m, 1H); 6.20-6.33 (m, 1H); 6.93-7.11 (m, 3H); 8.45 (m, 1H); 8.84 (s <sub>broad</sub> , 1H).
IA-6	1-methyl-3-trifluoro-methyl-pyrazol-4-yl	CH <sub>3</sub>	CH <sub>3</sub>	trans-3-chloroallyl	oil	<sup>1</sup> H-NMR (CDCl <sub>3</sub> ), δ [ppm]: 1.53 (d, 3H); 1.79 (s, 3H); 3.95 (s, 3H); 4.54 (d, 2H); 5.00 (q, 1H); 6.08 (m, 1H); 6.17-6.29 (m, 1H); 6.96-7.10 (m, 2H); 8.10 (m, 1H); 8.45 (m, 1H); 8.59 (s <sub>broad</sub> , 1H).
IA-7	1-methyl-3-trifluoro-methyl-pyrazol-4-yl	CH <sub>3</sub>	CH <sub>3</sub>	CH <sub>3</sub>	100-102	

No.	A	R <sup>31</sup>	R <sup>5</sup>	R <sup>6</sup>	m.p. [°C]; consistency	Spectroscopical data
IA-8	1-methyl-3-trifluoro-methyl-pyrazol-4-yl	CH <sub>3</sub>	CH <sub>3</sub>	C <sub>6</sub> H <sub>5</sub> CH <sub>2</sub>	oil	<sup>1</sup> H-NMR (CDCl <sub>3</sub> ), δ [ppm]: 1.58 (d, 3H); 1.80 (s, 3H); 3.95 (s, 3H); 4.98 (m, 1H); 5.17 (s, 2H); 6.82-6.99 (m, 3H); 7.25-7.45 (m, 4H); 8.07 (m, 1H); 8.46 (m, 1H); 8.59 (s <sub>broad</sub> , 1H).
IA-9	2-chloro-pyridin-3-yl	CH <sub>3</sub>	CH <sub>3</sub>	CH(CH <sub>3</sub> ) <sub>2</sub>	oil	<sup>1</sup> H-NMR (CDCl <sub>3</sub> ), δ [ppm]: 1.20 (m, 6H); 1.53 (d, 3H); 1.80 (s, 3H); 4.29 (m, 1H); 5.03 (m, 1H); 6.95-7.15 (m, 3H); 7.43 (m, 1H); 8.31 (m, 1H); 8.47-8.51 (m, 2H); 9.23 (s <sub>broad</sub> , 1H).
IA-10	2-chloro-pyridin-3-yl	CH <sub>3</sub>	CH <sub>3</sub>	trans-3-chloroallyl	oil	<sup>1</sup> H-NMR (CDCl <sub>3</sub> ), δ [ppm]: 1.57 (d, 3H); 1.80 (s, 3H); 4.52 (d, 2H); 5.01 (q, 1H); 6.09 (m, 1H); 6.18-6.30 (m, 1H); 6.99-7.13 (m, 3H); 7.03 (m, 1H); 8.35 (m, 1H); 8.51 (m, 2H); 9.21 (s <sub>broad</sub> , 1H).
IA-11	2-chloro-pyridin-3-yl	CH <sub>3</sub>	CH <sub>3</sub>	CH <sub>3</sub>	74-75	
IA-12	2-chloro-pyridin-3-yl	CH <sub>3</sub>	CH <sub>3</sub>	C <sub>2</sub> H <sub>5</sub>	oil	<sup>1</sup> H-NMR (CDCl <sub>3</sub> ), δ [ppm]: 1.25 (d, 3H); 1.58 (d, 3H); 1.80 (s, 3H); 4.11 (m, 2H); 5.02 (m, 1H); 6.97-7.10 (m, 3H); 7.47 (m, 1H); 8.31 (m, 1H); 8.23-8.28 (m, 2H); 9.22 (s <sub>broad</sub> , 1H).

Allyl: CH<sub>2</sub>CH=CH<sub>2</sub>;

m.p.: Melting point

### 5 Use examples:

The active compounds were prepared as a stock solution comprising 0.25% by weight of active compound in acetone or dimethyl sulfoxide (DMSO). 1% by weight of the emulsifier Uniperol® EL (wetting agent having emulsifying and dispersant action based on ethoxylated alkylphenols) was added to this solution, and the mixture was diluted with water to the desired concentration.

Curative action against brown rust of wheat

Leaves of potted wheat seedlings of the cultivar "Kanzler" were dusted with spores of brown rust (*Puccinia recondita*). The pots were then placed in a chamber with high atmospheric humidity (90 to 95%) at 20-22°C for 24 hours. During this time, the spores germinated and the germinal tubes penetrated into the leaf tissue. The next day, the infected plants were sprayed to runoff point with an aqueous suspension having the concentration of active compound stated below. The suspensions or emulsions were prepared as described above. After the spray coating had dried on, the test plants were cultivated in a greenhouse at temperatures between 20 and 22°C and at 65 to 70% relative atmospheric humidity for 7 days. The extent of the rust fungus development on the leaves was then determined.

No.	Infection at 63 ppm (% of leaf area)
IA-4	0
IA-5	7
IA-7	3
untreated	90

Protective action against *Puccinia recondita* on wheat (brown rust of wheat)

15 Leaves of potted wheat seedlings of the cultivar "Kanzler" were sprayed to runoff point with an aqueous suspension having the concentration of active compound stated below. The next day, the treated plants were dusted with spores of brown rust of wheat (*Puccinia recondita*). The plants were then placed in a chamber with high atmospheric humidity (90 to 95%), at 20-22°C, for 24 hours. During this time, the spores germinated and the germinal tubes penetrated into the leaf tissue. The next day, the test plants were returned into the greenhouse and cultivated at temperatures between 20 and 22°C and at 65 to 70% relative atmospheric humidity for a further 7 days. The extent of the rust development on the leaves was then determined visually.

20

No.	Infection at 63 ppm (% of leaf area)
IA-1	10
IA-4	3
IA-5	3
IA-6	5
IA-7	3
IA-8	3
IA-9	5
IA-10	5
IA-11	10
IA-12	3

**0000055221**

**62**

No.	Infection at 63 ppm (% of leaf area)
untreated	90